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PETER BENT BRIGHAM HOSPITAL --- BOSTON

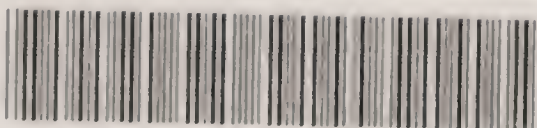
TWENTIETH ANNUAL REPORT FOR THE YEAR 1933



1934

FORM OF BEQUEST

*I give and bequeath to the Peter Bent Brigham
Hospital, a corporation established under the laws
of the Commonwealth of Massachusetts, the sum
of _____ dollars,
the same to be used for the furtherance of its
charitable work.*



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TWENTIETH ANNUAL REPORT
OF THE
PETER BENT BRIGHAM
HOSPITAL

FOR THE YEAR
1933



1934

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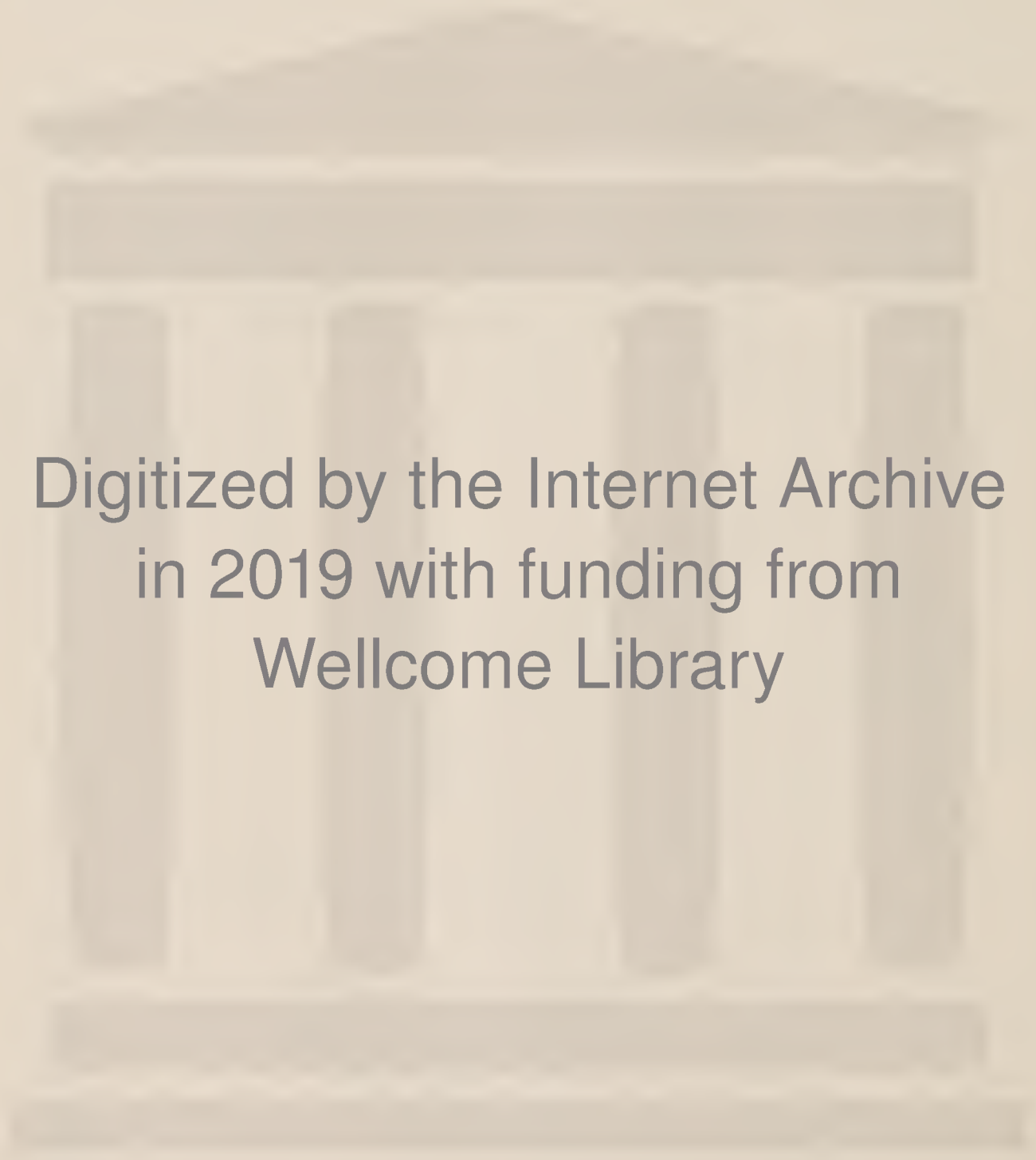
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1933

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President's Report

THE Brigham Hospital was endowed by Peter Bent Brigham, under his will, with large pieces of real estate, besides other property. In these days of depression, income from real estate has been more reduced than income from other kinds of property. Our income has come largely from real estate and has been so much reduced that the hospital has not been able to pay its current expenses with its income, notwithstanding the fact that a large sum (\$75,520.15) has been received from the Emergency Campaign of 1933. The hospital has, therefore, been obliged to pay during this year \$86,329.27 of its current expenses from its capital. This hospital is, compared with many hospitals, a new institution, and we do not receive unrestricted bequests which can be used for current expenses. It is obvious that our current expenses must be reduced, if these conditions continue; this will become one of the problems confronting the Trustees and Staff.

Dr. Harvey Cushing, our Surgeon-in-Chief Emeritus, has been appointed Sterling Professor of Neurology at Yale University.

It is with just pride that the Hospital calls attention to the following men who have received a part of their education and experience in surgery, medicine, and pathology in this Hospital and who have been called to positions of importance in other hospitals and medical schools of this country.

MEDICAL

Hilding Berglund, Asst. Res. Phys., P. B. B. H., 1921-23;
Assoc. in Med., *ibid.*, 1923-25; now Prof. of Med., Univ.

PETER BENT BRIGHAM HOSPITAL

- of Minn., and Chief, Dept. of Med., Univ. Hospitals, Minneapolis.
- Francis G. Blake, Med. House Officer, P. B. B. H., 1913-14; Asst. Res. Phys., *ibid.*, 1914-15; Res. Phys., *ibid.*, 1915-16; now Prof. of Med., Yale Univ. School of Med., and Phys.-in-Chief, New Haven Hosp.
- Herrmann Blumgart, Med. House Officer, P. B. B. H., 1921-22; now Assoc. Prof. of Med., Harv.; Visit. Phys., Beth Israel Hosp., and Director of Med. Research, *ibid.*
- William W. Cadbury, Asst. Res. Phys., P. B. B. H., 1915-16; now Superintendent and Internist, Canton Hospital, Canton, China.
- Cecil Kent Drinker, Med. House Officer, P. B. B. H., 1914-15; Res. Phys., *ibid.*, 1917; Prof. of Phys., Harv., and Asst. Dean, Harv. School of Public Health.
- Channing Frothingham, Phys., P. B. B. H., 1912-32; now Phys.-in-Chief, Faulkner Hospital, Jamaica Plain, Massachusetts.
- Horace Gray, Med. House Officer, P. B. B. H., 1914-16; now Clin. Prof. of Med., Stanford University, San Francisco, California.
- Worth Hale, Assoc. in Med., P. B. B. H., 1917-18; Assoc. Prof. of Pharm. and Asst. Dean, Harv. Med. School.
- Paul D. Lamson, Asst. Res. Phys., P. B. B. H., 1913-14; now Prof. of Pharm., Vanderbilt Univ. School of Med.
- George R. Herrmann, Med. House Officer, P. B. B. H., 1918-19; now Prof. of Clin. Med., Univ. of Texas.
- Wilson George Smillie, Med. House Officer, P. B. B. H., 1912-14; Asst. Res. Phys., *ibid.*, 1914; now Prof. of Public Health Administration, Harv. Univ.
- Cyrus C. Sturgis, Med. House Officer, P. B. B. H., 1917-18; Asst. Res. Phys., *ibid.*, 1919-20; Res. Phys., *ibid.*, 1920-22; Assoc. in Med., *ibid.*, 1922-25; Phys., *ibid.*, 1925-27; now Prof. of Int. Med., Univ. of Mich., and Director, Dept. of Int. Med., Univ. Hospitals.
- Joseph T. Wearn, Med. House Officer, P. B. B. H., 1917-18; Asst. Res. Phys., *ibid.*, 1919-21; now Prof. of Med., Western Reserve Univ., and Director of Med., Lakeside Hosp., Cleveland, Ohio.

REPORT OF THE PRESIDENT

SURGICAL

- Percival Bailey, Asst. Res. Surg., P. B. B. H., 1919; Assoc. in Surg., *ibid.*, 1920-21; Jr. Assoc. in Surg., *ibid.*, 1922-23; Assoc. in Surg., *ibid.*, 1926-28; now Prof. of Neurol., Univ. of Chicago.
- Clarence E. Bird, Surg. House Officer, P. B. B. H., 1923-24; Asst. Res. Surg., *ibid.*, 1925-26; Res. Surg., *ibid.*, 1926-28; now Prof. of Surg., Univ. of Louisville, and Surg.-in-Chief, Louisville City Hosp.
- Walter M. Boothby, Supervisor of Anesthesia, P. B. B. H., 1913-16; now Assoc. Prof. of Med., Mayo Foundation, Univ. of Minn.; and Head of Sec. of Clin. Metabolism, Mayo Clin., Rochester, Minnesota.
- Stanley Cobb, Surg. House Officer, P. B. B. H., 1914-16; now Prof. Neuropathol., Harv., and Director, Neurol. Labs., Boston City Hospital.
- Harvey Cushing, Surg.-in-Chief, P. B. B. H., 1912-1932; now Sterling Professor of Neurology, Yale University.
- Elliott C. Cutler, Surg. House Officer, P. B. B. H., 1913-15; Res. Surg., *ibid.*, 1919-21; Assoc. in Surg., *ibid.*, 1921-24; Surg.-in-Chief, P. B. B. H., and Moseley Prof. of Surg., Harv.
- Loyal Davis, Jr. Assoc. in Surg., P. B. B. H., 1924; now Prof. of Surg., Northwestern Univ., Chicago, Illinois.
- Gilbert Horrax, Surg. House Officer, P. B. B. H., 1913-14; Asst. Res. Surg., *ibid.*, 1915-16; Assoc. in Neurol. Surg., *ibid.*, 1919-28; Sr. Assoc. in Neurol. Surg., 1928-32; now in charge of Neuro-Surgery, The Lahey Clinic, Boston, Massachusetts.
- Daniel C. Elkin, Surg. House Officer, P. B. B. H., 1921-22; Asst. Res. Surg., *ibid.*, 1922-23; Res. Surg., *ibid.*, 1923; Prof. of Surg., Emory Univ., and Surg.-in-Chief, Univ. Hospitals.
- John Fulton, Assoc. in Neurol. Surg., P. B. B. H., 1928; now Sterling Prof. of Phys., Yale.
- Emil Goetsch, Res. Surg., P. B. B. H., 1912-15; now Prof. of Surg. and Surg.-in-Chief, Long Island Coll. Hosp., Brooklyn, New York.
- Samuel C. Harvey, Surg. House Officer, P. B. B. H., 1914-15; Asst. Res. Surg., *ibid.*, 1916-17; Prof. of Surg., Yale.
- Emile Holman, Asst. Res. Surg., P. B. B. H., 1923; Res.

PETER BENT BRIGHAM HOSPITAL

Surg., *ibid.*, 1923-24; now Prof. of Surg., Stanford Univ. Med. School.

William S. McCann, Surg. House Officer, P. B. B. H., 1915-16; now Prof. of Med., Univ. of Rochester, Rochester, New York.

Edwin P. Lehman, Surg. House Officer, P. B. B. H., 1914-15; now Prof. of Surg. and Gynecol., Univ. of Va.

John J. Morton, Surg. House Officer, P. B. B. H., 1913-14; now Prof. of Surg., Univ. of Rochester, Rochester, New York.

Wilder Penfield, Surg. House Officer, P. B. B. H., 1918-19; now Director, Montreal Neurol. Inst.

Frederick Schreiber, Asst. Res. Surg., P. B. B. H., 1928-29; now Prof. of Brain and Nerve Surgery, Detroit College of Medicine and Surgery.

George B. Wislocki, Assoc. in Surg., P. B. B. H., 1920; now Parkman Prof. of Anatomy, Harv.

PATHOLOGICAL

Charles L. Connor, Res. Pathol., P. B. B. H., 1925-26; now Prof. of Pathol., Univ. of Cal. Med. School.

Fred C. Fishback, Pathol. House Officer, P. B. B. H., 1923-24; now Prof. of Clin. Surg., Georgetown Univ. Med. School, Washington, D. C.

Ernest W. Goodpasture, Res. Pathol., P. B. B. H., 1915-17; now Prof. of Pathol., Vanderbilt Univ.

Victor Jacobsen, Pathol. House Officer, P. B. B. H., 1919; Res. Path., 1919-21; now Cyrus Strong Merrill Prof. of Path., Union University, Albany, New York.

During the past year, Dr. Charles A. Elliott served as Physician-in-Chief *pro tem* from April 16 to 22, 1933. Dr. Elliott is Professor of Medicine at Northwestern University, Chicago, and Attending Physician, Passavant Memorial Hospital, Chicago. We are grateful to him for his inspiration as a teacher and clinician.

This Hospital was founded under the terms of the will of Peter Bent Brigham of Boston "for the care of sick persons in indigent circumstances residing in the

REPORT OF THE PRESIDENT

County of Suffolk.” The Hospital constantly has in mind these provisions and never refuses admission to poor persons, citizens of Suffolk County.

The Board of Incorporators wish to express their gratitude to the officers and workers of the Emergency Campaign, who gave much time and labor to the raising of funds for the use of the charitable organizations of Boston.

The Hospital acknowledges with gratitude the gifts received, a list of which will be found on the pages immediately following this report.

Our thanks are due the Ladies’ Social Service Committee for their continued interest in that Department, and for their valuable work in raising money to carry on the activities.

We express our appreciation and gratitude of the faithful service rendered by staff and employees during the past year.

CHARLES P. CURTIS,
President.

DECEMBER 31, 1933.

Gifts to the Hospital During the Year 1933

New England Trust Company, Trustee u/will Photius Fiske for the benefit of poor and needy colored people.....	\$ 200.00
Boston Firemen's Relief Fund for a free bed for year 1933.....	200.00
Mr. Kegham Kazarian	2.25
Legacy u/w John Thomas, New England Trust Co., Trustee..	5,000.00
Estate Samuel Hirschberg on account of income.....	230.00
Anonymous	2.00
Mrs. Almena S. Gray gift to the Philip H. Gray Fund for the furtherance of Neuro-Surgery	5,000.00
Anonymous gift through Dr. O'Hare to the Fund for research in Renal and Vascular diseases	1,000.00
Old Colony Trust Co., Trustee u/deed Paul Wylde Jackson for establishment of a Fund to be known as the "Henry Clay Jackson Fund," the income only to be used for the general purposes of the Hospital	30,000.00
Mr. William Amory for new lights in operating room.....	990.00
Mr. William Amory gift to Christmas Fund.....	10.00
Committee of the Permanent Charity Fund, Inc., to be used for the general purposes of the Social Service Department....	2,000.00
Mr. G. Gorham Peters gift to the G. Gorham Peters Fund....	2,500.00
Proceeds performance at Hollis Street Theatre for the benefit of the Social Service Department.....	1,052.95
Boston Emergency Relief Campaign on account Campaign quota including Social Service Department	77,500.00
Boston, Emergency Relief Campaign for Social Service Depart- ment, Special	200.00
Boston Emergency Relief Campaign for relief of patients other than medical relief, etc.	300.00
Boston Emergency Relief Campaign for Social Service Depart- ment medical relief for Overseers' cases.....	350.00
Anonymous gift for a mannikin and eye model for the School of Nursing	150.00
Mrs. Annie A. Colby (merchandise)	50.00

GIFTS TO SOCIAL SERVICE SPECIAL GIFT FUND

Miss M. Agnes Holbrook..\$ 2.00	Mr. N. B. Griswold..... 10.00
Lend-a-Hand Society..... 288.50	Mrs. Annie L. Thorp..... 30.00
Home for Aged Men for outside beneficiaries	Mrs. W. L. Pearson..... 5.00
(given through Miss	Miss Emily S. Reed..... 20.00
Christine McLeod).... 173.20	Mrs. Eleanor R. Snow.... 2.00
	Mr. Wallace Hatch..... 90.00

GIFTS TO THE HOSPITAL

Eastern Star "Winthrop"...	9.50	Frederick E. Weber Char-	
Georgie Lee Special Fund..	20.00	ties Corporation.....	115.00
Mr. Henry A. Walker.....	10.00	Mr. George Dobyne.....	25.00
Mrs. James R. Hooper....	10.00	Mrs. C. P. Curtis.....	10.00
Jewish Family Welfare So-		Mrs. George A. May.....	3.00
cietv	15.00	Mrs. Lizzie Moody.....	5.00
Miss Ella W. Saltonstall..	5.00	Mrs. Lyman Underwood...	10.00
Mary A. Crabtree Fund...	75.00	Miss Lucy A. Fitzgerald..	2.00
Mr. Alex Young.....	5.00	Miss Clara A. Adams....	50.00
Mrs. Richard C. Paine....	10.00	Mrs. John E. Towler.....	2.00
Kings Chapel Sunday		In appreciation.....	10.00
School	10.00	We Ten.....	32.00
International Institute.....	6.00	Mrs. Mary R. Frost.....	15.00
Family Welfare Society...	1.00	Mrs. Charlotte Denny.....	5.00
Benton Fund.....	182.10	Anonymous	402.15
Invalid Aid.....	8.50		

Free Bed Fund

Alexander Cochrane Free Bed	\$10,000.00
Walter Hunnewell Free Bed	10,000.00
Miss Aimee Lamb (In memory of Mrs.	
Winthrop Sargent)	5,000.00
Miss Aimee Lamb.....	500.00 (5 beds for
	one year)
Carrie M. Hall Free Bed	6,000.00
(Alumnae Association of the Peter	
Bent Brigham Hospital School of	
Nursing)	
Henry Saltonstall Howe Free Bed....	5,000.00
Theodore Lyman Free Bed	1,000.00 for ten years
Boston Firemen's Relief Association	
Free Bed	200.00 for one year
Mrs. F. S. Parker	100.00 for one year

Report of the Treasurer

A STATEMENT of receipts of income from investments and of payments therefrom out of the office of the Treasurer for the year ending December 31, 1933 is as follows:

INCOME

Real Estate Receipts:

Rents	\$101,942.48	
Taxes paid by tenants	5,313.60	
Interest on abated real estate taxes	133.76	
Receipts from Portland Street power plant	814.59	
	<hr/>	\$108,204.43

Interest on Investments:

On bonds	\$ 61,900.84	
On mortgages	7,478.87	
	<hr/>	\$ 69,379.71
Dividends	12,179.00	
	<hr/>	81,558.71
Bank interest		56.16

Total income	\$189,819.30
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EXPENDITURES

Taxes	\$ 64,891.52
Building repairs, etc.	12,263.53
Portland Street power plant	5,000.64
Insurance	3,926.95
Brokerage on leases	1,948.00
Salaries	7,080.00
Legal expenses	652.58
Audit	800.00
Safe deposit box rent	77.00
Moody's investors' service, one year.	1,200.00
Premium Treasurer's Fidelity Insur- ance bond	125.00
Postage and fees unregistering of bonds	116.17

Amount carried forward.....	\$ 98,081.39	\$189,819.30
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REPORT OF THE TREASURER

<i>Amount brought forward</i>	\$ 98,081.39	\$189,819.30
Federal bank check taxes	8.76	
Miscellaneous expenses	34.58	
	<hr/>	
	\$ 98,124.73	
Bond premiums amortized	431.94	
	<hr/>	98,556.67
		<hr/>
		\$ 91,262.63
Transfer of income applicable to the following funds for year 1933:		
Harvey Cushing Fellowship Fund.	\$ 1,678.67	
John P. Reynolds Scholarship Fund	125.00	
	<hr/>	1,803.67
		<hr/>
Net investment income available for Hospital operating expense		\$ 89,458.96
Net payments for Hospital operating expenses as shown by the Superintendent's statements appended	\$255,734.26	
Gain in Superintendent's supplies ..	4,425.88	
	<hr/>	\$251,308.38
		<hr/>
Deficit of income for year 1933		\$161,849.42
Amount received from Boston Emer- gency Relief Campaign applica- ble to Hospital expenses		75,520.15
		<hr/>
Net deficit for year 1933 charged to General Fund		<u>\$ 86,329.27</u>

BALANCE SHEET, DECEMBER 31, 1933

A S S E T S

Land and buildings occupied for Hospital including furniture and fixtures	\$2,278,213.16
Mortgages	437,218.38
	<hr/>
<i>Amount carried forward</i>	\$2,715,431.54

PETER BENT BRIGHAM HOSPITAL

Amount brought forward..... \$2,715,431.54

Land and buildings:

166/210 Portland Street\$794,418.57

38/54 Scollay Square 494,943.41

108/114 Lincoln Street 153,368.45

91/95 Portland Street 75,957.25

148/150 Hanover Street 60,787.78

1/7 Sudbury Street 60,151.83

4/12 Cambridge Street 56,954.51

94/98 Arch Street and 13/17
Otis Street 166,211.42

Land corner Albany and Dover
Streets 106,485.73

77 East Dedham Street 3,535.86

35 Newcomb Street 3,596.56

9 Andrews Street 2,036.63

13 Andrews Street 2,175.56

83 Village Street 4,652.11

28 Genesee Street 7,716.50

35 Wall Street 10,152.91

83 Brighton Street 10,410.59

33 Poplar Street 7,838.32

20 Lowell Street 6,919.09

38 Oswego Street, tax title, etc. 250.00

2,028,563.08

Shares:

180 shares Atchison, Topeka & St.
Fe R. R. Co. common \$ 39,474.00

1000 shares Boston & Maine R. R.
Co. pfd A stamped.. 129,432.68

500 shares Boston & Maine R. R.
Co. pfd A unstamped 36,178.76

620 shares Boston & Maine R. R.
Co. prior pref. pfd .. 62,422.99

100 shares Boston & Albany R. R.
Co. 25,800.00

524 shares Vermont & Massachu-
setts R. R. Co. 91,700.00

450 shares Old Colony R. R. Co. 93,150.00

Amount carried forward.....\$478,158.43 \$4,743,994.62

REPORT OF THE TREASURER

<i>Amount brought forward</i>	\$478,158.43	\$4,743,994.62
183 shares Nashua & Acton & Boston R. R. Co.	183.00	
300 shares State Street Exchange	25,960.00	
600 shares Boston Real Estate Trust	69,937.25	
150 shares Hotel Trust (Touraine)	15,900.00	
150 shares South Terminal Trust	14,175.00	
1000 shares Berkeley Hotel Trust	65,000.00	
400 shares Public Service Co. of N. J.	24,570.00	
100 shares Chicago, Milwaukee, St. Paul & Pacific R. R. Co. pfd	15,162.70	
600 shares Pennsylvania R. R. Co.	40,773.88	
1500 shares New York, New Haven & Hartford R. R. Co. common	28,500.00	
375 shares New York, New Haven & Hartford R. R. Co. pfd	37,500.00	
186 shares Pennroad Corporation	2,883.00	
30 shares Albany Trust	2,265.00	
18 shares City Associates par value \$500 per share	5,875.00	
50 shares Tremont Building Trust	3,240.00	
100 shares New England Tel. & Tel Co.	9,373.75	
200 shares Consolidated Gas Co. of N. Y. common ..	8,680.10	
100 shares E. I. Du Pont De Nemours Co. common	8,170.05	
100 shares Standard Oil Company of California	4,427.55	
101 shares Corn Products Refining Co. common ...	8,920.05	
<i>Amount carried forward</i>	\$869,654.76	\$4,743,994.62

PETER BENT BRIGHAM HOSPITAL

Amount brought forward.....\$869,654.76 \$4,743,994.62

100 shares Standard Oil Co. of N. J.	4,327.55
200 shares Union Carbide & Car- bon Corp.	9,655.10
200 shares General Motors Corp. common	6,830.10

890,467.51

Bonds:

\$ 10,000 Edison Electric Illuminat-
ing Co. 5% coupon
notes due 1934\$ 8,979.90

50,000 Edison Electric Illuminat-
ing Co. 5% coupon
notes due 1935 49,091.25

110,000 American Telephone &
Telegraph Co. 5%
bonds due 1965..... 107,759.15

40,000 Oregon, Washington R. R.
& Navigation Co.
first refunding 4%
bonds due 1961 34,954.80

60,000 Chicago, Burlington &
Quincy R. R. Co. Ill.
Division 3½% bonds
due 1949 54,598.00

25,000 Peoples Gas Light & Coke
Co. refunding mort-
gage 5% gold bonds
due 1947 25,921.70

55,000 Interborough Rapid Tran-
sit Co. 5% bonds due
1966 53,500.00

25,000 Los Angeles Gas & Elec-
tric Corp. first &
gen'l mortgage gold
5% bonds due 1961 24,940.75

Amount carried forward.....\$359,745.55 \$5,634,462.13

REPORT OF THE TREASURER

Amount brought forward.....\$359,745.55 \$5,634,462.13

25,000	New York Central & Hudson River R. R. Co. first mortgage 3½% bonds due 1997	21,875.00
25,000	New York Central & Hudson River R. R. Co. debt. 4% bonds due 1934	23,937.50
25,000	Northern Pacific Ry. Co. Prior Lien 4% bonds due 1997	24,781.25
50,000	Eastern Massachusetts Street Ry. Co. series A 4½% bonds due 1948	41,450.00
2,500	Eastern Massachusetts Street Ry. Co. series D 6% bonds due 1948	
5,000	Eastern Massachusetts Street Ry. Co. series B 5% bonds due 1948	2,585.00
25,000	Quincy Market Realty Co. 5% bonds due 1964	25,000.00
56,800	Pere Marquette Ry. Co. first mortgage 5% bonds due 1956 ...	49,420.00
3,000	Pennsylvania R. R. Co. 4% bonds due 1948	2,880.00
50,000	Atchison, Topeka & St. Fe R. R. Co. Trans-con- tinental Short Line 4% bonds due 1958	47,500.00
20,000	Illinois Central R. R. Co. ref'd mortgage 4% bonds due 1955	17,700.00

Amount carried forward.....\$616,874.30 \$5,634,462.13

PETER BENT BRIGHAM HOSPITAL

Amount brought forward.....\$616,874.30 \$5,634,462.13

50,000	Western Electric Co. gold debt. 5% bonds due 1944	48,297.50
25,000	Cedar Rapids Mfg. & Power Co. first mort- gage Sinking Fund 5% bonds due 1953	24,250.00
25,000	St. Louis Iron Mountain & Southern Ry. Co. first mortgage 4% gold bonds overdue	13,815.00
15,000	Baltimore & Ohio R. R. Co. South Western Div. 5% bonds due 1950	14,887.50
27,400	Chicago, Milwaukee, St. Paul & Pacific R. R. Co. 5% bonds due 1975	16,215.25
50,000	City of Toronto, Canada General Consoli- dated Loan debt. 5% bonds due 1941	99,125.00
20,000	City of Toronto, Canada General Consoli- dated Loan debt. 5% bonds due 1943	
30,000	City of Toronto, Canada General Consoli- dated Loan debt. 5% bonds due 1944	
50,000	Canadian Pacific Railways Equipt. Trust 5% bonds due 1944	49,625.00
25,000	Erie R. R. Co. refunding & imp. mortgage 5% bonds due 1975	23,875.00

Amount carried forward.....\$906,964.55 \$5,634,462.13

REPORT OF THE TREASURER

<i>Amount brought forward</i>		\$906,964.55	\$5,634,462.13
50,000	Crucible Steel Co. of America 5% gold debt. bonds due 1940	49,750.00	
5,000	Pennsylvania R. R. Co. gen'l mortgage 4¼% bonds series D due 1981	4,800.00	
25,000	Pennsylvania Power & Light first mortgage 4½% bonds due 1981	24,062.50	
20,000	Central of Georgia Ry. Co. Chattanooga Div. 4% bonds due 1951	17,500.00	
25,000	Southern California Gas Co. first mortgage & refunding 4½% bonds due 1961	24,062.50	
5,000	Atlantic Gulf & West In- dies Steamship Co. Coll. Trust 5% bonds due 1959	3,500.00	
10,000	Kentucky Traction & Terminal Co. first & ref'd S. F. 5% bonds due 1951	8,650.00	
5,000	United Post Office Cor- poration first mort- gage S. F. 5½% bonds due 1935	5,000.00	
25,000	Gulf States Utilities Com- pany first mortgage & ref'd gold 5% bonds due 1956	18,266.47	
5,000	Associated Gas & Electric Co. debt. 5% bonds due 1968	4,900.00	
<i>Amount carried forward</i>		\$1,067,456.02	\$5,634,462.13

PETER BENT BRIGHAM HOSPITAL

<i>Amount brought forward</i>	\$1,067,456.02	\$5,634,462.13
5,000 New England Power Association debt. 5½% bonds due 1954	4,805.00	
5,000 Great Northern R. R. Co. general mortgage 7% gold bonds series A due 1936	3,625.00	
<i>Cash:</i>		1,075,886.02
Operating Expense Fund	\$ 20,000.00	
In banks	33,409.27	
		53,409.27
Superintendent's inventories		43,614.26
Total assets		<u>\$6,807,371.68</u>

BALANCE SHEET, DECEMBER 31, 1933

LIABILITIES AND FUNDS

Reserves:

For Portland Street Power Plant depreciation	\$ 4,861.02	
For depreciation of investment Real Estate	105,439.10	
		\$ 110,300.12

Accounts payable unpaid real estate taxes for year 1933 pending abatement of same	8,459.12	
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Unexpended Income:

Harvey Cushing Fellowship Fund Income	\$ 4,025.14	
John P. Reynolds Scholarship Fund Income	201.85	
		4,226.99

Special Funds:

Diabetic Research Fund	\$ 38.49	
Philip H. Gray Fund for the furtherance of Neuro-Surgery	5,264.58	

<i>Amount carried forward</i>	\$ 5,303.07	\$ 122,986.23
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REPORT OF THE TREASURER

<i>Amount brought forward</i>	\$ 5,303.07	\$ 122,986.23
John P. Reynolds Memorial Fund	1,000.00	
Hemenway Squash Court	11,050.00	
Surgical Dressing Fund—donation from the New England Surgical Dressing Committee	10,000.00	
Harvey Cushing Fellowship Fund	33,573.44	
John P. Reynolds Scholarship Fund	2,500.00	
Radium Fund	3,000.00	
Alexander Cochrane Free Bed Fund	10,000.00	
Theodore Lyman Free Bed Fund	1,000.00	
Aimee Lamb Free Bed Fund in memory of Mrs. Winthrop Sar- gent	5,000.00	
Walter Hunnewell Free Bed Fund	10,000.00	
Carrie M. Hall Fund.....	7,000.00	
Fund for Research in Renal and Vascular Diseases	2,405.73	
Free Bed in memory of Henry Sal- tonstall Howe	5,000.00	
Francis Weld Peabody Loan Fund	1,458.29	
G. Gorham Peters Fund.....	2,500.00	
United Boston Unemployment Re- lief Campaign	163.50	
Henry Clay Jackson Fund	30,000.00	
	<hr/>	140,954.03
Peter Bent Brigham Hospital General Fund		6,543,431.42
		<hr/>
Total Liabilities and Funds		<u><u>\$6,807,371.68</u></u>

EDMUND D. CODMAN,
Treasurer.



Report of the Superintendent

THIS is the twentieth annual report of the Superintendent, covering the year 1933. Although economists tell us that financial conditions have improved since the middle of the year, our experience, which I believe is common to other similar hospitals, does not show this improvement. Fortunately again this year, there have been no serious epidemics, although there is evidence that under-nutrition in children is already beginning to show its effect in increased morbidity. As we take no children under twelve years of age, either in the wards or out-door department, except emergencies, we are not in a position to have noticed the effects of malnutrition to the extent that it has been seen in children's clinics.

In general, bed occupancy of hospitals throughout the United States has been lower than in the previous year, which was abnormally low.

There were admitted to the wards during the year 4,272 patients, as compared with 4,220 the previous year, although the patients days treatment was slightly less, 64,642 days as compared with 68,301 days in 1932. The average bed occupancy was 72—%. It was 75.7% last year. The percentage of free patients was the same as the previous year, although, as a matter of fact, a very large number of patients were received at nominal rates so that the actual amount of free work was greatly increased over the previous year. The average stay of patients was 15+ days, as compared with 16+ days the previous year. The per capita cost, based on the total expenditures in all departments of the hospital (except the amount paid graduate nurses employed at the expense of the patient for special duty) was \$7.60—

REPORT OF THE SUPERINTENDENT

as compared with \$7.49+ in 1932. Deducting the cost of operating the private ward and Out-Door Department the per capita cost was \$6.49+. It was \$6.25—last year. The daily per capita cost of provisions for all persons fed was \$.32+ as compared with \$.36+ in 1932.

In the Out-Door Department, 7,976 new patients were seen. In 1932, this figure was 8,173. The total number of visits to the Department was 80,272 as compared with 78,786 the previous year. The cost per visit was \$.57—, \$.04 less than last year.

The reduction in salaries and wages which began in February, 1932, has continued, and this saving of about \$30,000 a year has been the principal economy which we have been able to effect. It has been found difficult to make any other considerable savings without lowering the standard of medical care.

This hospital with one hundred and nine other charities, has participated in a Community Chest from which we received \$75,520.15. Notwithstanding this, our operating deficit for the year was \$86,329.27. We are very grateful to the public for its generous participation in the drive, without which many of the voluntary charities would have had to seriously curtail their work or even close their doors.

In the Dietary Department, Miss Maude Lacey, who had been with us as an assistant dietitian for 2½ years, resigned to accept a position as Dietitian of the Lawrence General Hospital. Miss Ann Schultz, a Simmons College graduate, succeeded Miss Lacey. Seven student dietitians have completed the eight months course during the past year. In accordance with the request of the American Dietetic Association, we are cutting down our yearly quota of students because of

PETER BENT BRIGHAM HOSPITAL

the over-supply of graduate dietitians. The total number of special diets for the year was 12,697, as compared with 13,980 last year. The outstanding diets and numbers were: Diabetic, 2,539; High Vitamin, 2,949; High Caloric, 1,284; Standard Nephritic, 1,049; Low Residue, 814; Colon, 609.

The Patients' Library circulated 5,737 books during the year. Sixty-two books were presented to the Library, 16 from Mr. Charles P. Curtis; 18 from Miss Eleanor Chase; complete sets of L'Illustration magazine from Mr. L. H. H. Johnson. We take this opportunity to thank all who have remembered us in supplying books and magazines. Nothing gives more pleasure to convalescent patients than suitable light reading. Most of our library books are old and we have no funds for their replacement. A small fund, the interest of which could be used only for this purpose, is highly desirable.

Mr. William Amory, a member of the Corporation, very generously gave us two Scialytic operating room lights for Operating Rooms 1 and 3.

On February 1, 1933, Mr. William R. Trask, long a member of the Corporation, died. Mr. Trask maintained an unfailing interest in the work of the Hospital, and, although he was in poor health for a number of years before his death, he came to the meetings of the Corporation whenever possible and always contributed with sound advice.

We regret to record also the death of Miss Bernice Young, a student in the School of Nursing, on December 19, 1933, from agranulocytic angina and bronchopneumonia.

Miss Elizabeth M. Packard, who had been with us as Housekeeper since November 1, 1912, resigned on

REPORT OF THE SUPERINTENDENT

September 1, 1933. Miss Packard's health had been poor for some time. We wish to record our appreciation of her long and faithful service. Mrs. Ann M. Lewis was appointed Housekeeper on September 15, 1933.

This year, we held our third Reunion to celebrate our twentieth anniversary. It would seem as if the custom was established of holding a Reunion every five years. The Corporation very generously invited all alumni to return for a three day celebration. Nearly all stayed to luncheon each day, and some to dinner. The brunt of the work of preparing these extra meals fell on the Dietary Department. They did their work well and deserve the highest praise. The menus were attractive and the serving of so many was made possible by the establishment of a temporary cafeteria. This, our twentieth anniversary celebration, was held on May 4, 5, and 6. The total registration was 428; 113 doctors and 195 nurses came from various distant parts of the country. They voted it a great success. It was gratifying to hear the comments which indicated a very strong spirit of loyalty and interest in their hospital. In addition to the usual features of the Reunion, on Friday evening, May 5, a special dinner was held in Vanderbilt Hall for the presentation of portraits of Drs. Cushing and Christian. Dr. Cushing's portrait was presented to the members of the Corporation of the Brigham Hospital and has been hung in the main waiting room of the Administration Building. Dr. Christian's portrait was presented to the University. Members of the Faculty of the Medical School and of the Governing Boards of Harvard University and Peter Bent Brigham Hospital were present, as were many alumni.

PETER BENT BRIGHAM HOSPITAL

The complete Reunion program follows:

THURSDAY, MAY 4

8:30-11:00—Surgical operations and ward visits by members of the Staff.
Detailed program to be found on Hospital bulletin boards.

IN AMPHITHEATRE

(Please note that all papers are strictly limited to ten minutes)

- 11:00-11:10—Welcome. Henry A. Christian, Physician-in-Chief.
- 11:00-11:20—Leucocytosis Following the Intramuscular Injection of Liver Extract. John H. Powers, Associate Surgeon, Mary Imogene Bassett Hospital, Cooperstown, New York. Former Assistant Resident Surgeon, Associate in Surgery, and Resident Surgeon.
- 11:20-11:30—Some Effects of Solution of Liver Extract Administered Intramuscularly. William P. Murphy, Associate in Medicine.
- 11:30-11:40—Does the Parathyroid Hormone Affect the Absorption of Calcium from the Intestines? Joseph C. Aub, Senior Associate in Medicine.
- 11:40-11:50—Oral Manifestations of Disease of the Parathyroid Gland. Moses S. Strock, Dental Surgeon.
- 11:50-12:00—The Dual Nature of the Thyroid Hormone. William T. Salter, Junior Associate in Medicine.
- 12:00-12:10—A Report of Sixty Cases of Aneurism. D. C. Elkin, Surgeon-in-Chief, Henrietta Eggleston Hospital for Children, Atlanta, Georgia. Former Surgical House Officer, Assistant Resident Surgeon and Resident Surgeon.
- 12:10-12:20—Changes in Skin Temperature Following the Intake of Food. George Booth, Pittsburgh, Pa., Former Medical House Officer.
- 12:20-12:30—Renal Rickets. Pathological Aspects. Sidney Farber, Instructor in Pathology, Harvard University School of Medicine and Assistant Pathologist, Children's Hospital, Boston, Massachusetts. Former Pathological House Officer.
- 12:30-12:40—Renal Rickets. X-ray Aspects. Edward C. Vogt, Roentgenologist, Children's Hospital, Boston, Massachusetts. Former Roentgenological House Officer, Assistant Resident in Roentgenology, and Associate in Roentgenology.
- 12:40-12:50—Recent Studies of Pellagra. Thomas D. Spies, Teaching Fellow in Medicine, Western Reserve University. Former Pathological House Officer.
- 12:50-1:00—Pathology of Vitamin Deficiency Diseases. S. Burt Wolbach, Pathologist.
- 1:00-2:30—Luncheon at the Peter Bent Brigham Hospital.
- 2:30-2:40—Swollen Legs. John Homans, Surgeon.
- 2:40-2:50—Experimental Lymphatic Obstruction in the Dog. Cecil K. Drinker, Professor of Physiology, Harvard University School of Medicine, and Assistant Dean, Harvard School of Public Health. Former Medical House Officers and Resident Physician.

REPORT OF THE SUPERINTENDENT

- 2:50-3:00—Observations on the Effect of Various Diuretics in Dogs. Marshall N. Fulton, Junior Associate in Medicine; Howard A. Van Auken, Voluntary Graduate Assistant in Medicine; and Robert J. Parsons, Voluntary Graduate Assistant in Medicine.
- 3:00-3:10—Creatinine as a Measure of Glomerular Filtration in Dogs. Lowrey F. Davenport, Voluntary Graduate Assistant in Medicine.
- 3:10-3:20—Cysts of the Upper Pole of the Right Kidney with Presentation of Cases. Ernest F. Bright, Assistant Resident Surgeon.
- 3:20-3:30—Functional Enuresis—A Bad Subconscious Habit. John C. Eckels, Junior Associate in Urology.
- 3:30-3:40—Some Practical Augmentation of Diuresis by Combinations of Xanthines and Heavy Metals. George R. Herrmann, Professor of Clinical Medicine, University of Texas. Former Medical House Officer.
- 3:40-3:50—Vegetative Nerve Disturbance of the Urinary Bladder. Eric Stone, Surgeon in Charge, Urological Service, Providence City Hospital, Providence, Rhode Island. Former Surgical House Officer and Assistant Resident Surgeon.
- 3:50-4:00—The Effect of Denervation of the Kidneys on the Action of Cinchophen. G. P. Grabfield, Associate in Medicine.
- 4:00-4:10—Syphilitic Albuminuria. Paul H. Wosika, Assistant Resident Physician.
- 4:10-4:20—Changes in the Adrenal Cortex Produced by the Urine of Pregnancy. Kenneth W. Thompson, Cushing Fellow.
- 4:20-4:30—Recent Studies on Chemical Transmission of Nerve Impulses. Walter B. Cannon, Consulting Physiologist.
- 4:30—Tea given by Nurses' Alumnae Association. Squash or Tennis, Energy and Weather Permitting.
- 6:30—Dinner at the Peter Bent Brigham Hospital.
- 8:00—Entertainment by Nurses' Alumnae Association and Resident Staff.

FRIDAY, MAY 5

- 8:30-11:00—Surgical operations and ward visits by members of the staff. Detailed program to be found on Hospital bulletin boards.

IN AMPHITHEATRE

- 11:00-11:10—The Cause of Death Among Recent Graduates in the Harvard Medical School; Certain Needs for a Well-organized Department of Student Health in the Process of Medical Education. Reginald Fitz, Physician.
- 11:10-11:20—Avertin as a Basal Anesthetic. F. W. Marvin, Visiting Anesthetist, Boston City Hospital, Newton Hospital and Boston Psychopathic Hospital. Former Surgical House Officer.
- 11:20-11:30—Recent Trends in Post-Graduate Medical Education. Leroy E. Parkins, Boston, Massachusetts, Former Surgical House Officer, Second Assistant Superintendent, and First Assistant Superintendent.

PETER BENT BRIGHAM HOSPITAL

- 11:30-11:40—A Report on the Late Results Following Removal of Very Large Spleens in Two Children with Sickle-cell Anemia. Howard A. Patterson, Assistant Attending Surgeon and Assistant Surgeon to Out-patients, Roosevelt Hospital, New York. Former Assistant Resident Surgeon.
- 11:40-11:50—Studies in Bronchial Stenosis. Cornelius B. Wood, Arthur Tracy Cabot Fellow and Junior Associate in Surgery.
- 11:50-12:00—An Aid in the Diagnosis of Subacute Bacterial Endocarditis. Clifford L. Derick, Physician.
- 12:00-12:10—Cardiac Outputs in Dogs During Exercise. Harold F. Robertson, Research Fellow in Surgery and Voluntary Graduate Assistant in Surgery.
- 12:10-12:20—The Oscillometer in Circulatory Disease. James P. O'Hare, Senior Associate in Medicine.
- 12:20-12:30—Some Clinical Considerations Concerning Angina Pectoris with Special Reference to Prognosis. Eugene C. Eppinger, Assistant Resident Physician.
- 12:30-12:40—Circulation of the Heart. Joseph T. Wearn, Director of Medicine, Lakeside Hospital, and Professor of Medicine, Western Reserve University, Cleveland, Ohio. Former Medical House Officer and Assistant Resident Physician.
- 12:40-12:50—Hard-hearted People from the X-ray Viewpoint. Merrill C. Sosman, Roentgenologist.
- 12:50-1:00—Calcified Aortic Valves. Henry A. Christian, Physician-in-Chief.
- 1:00-2:30—Luncheon at the Peter Bent Brigham Hospital.
- 2:30-2:40—Basophile Cells of Pituitary in Relation to Hypertension. Harvey Cushing, Surgeon-in-Chief Emeritus.
- 2:40-2:50—The Anterior Lobe of the Hypophysis in Carbohydrate Metabolism. William deG. Mahoney, Assistant Resident Surgeon, New York Hospital, and Assistant in Surgery, Cornell University Medical School. Former Surgical House Officer and Assistant Resident Surgeon.
- 2:50-3:00—Pathology of Meningiomas. Louise Eisenhardt, Junior Associate in Neurological Surgery.
- 3:00-3:10—The Physiological Pathology and Surgical Treatment of Torticollis, Dystonia and Athetosis. Tracy J. Putnam, Instructor in Neuropathology, Harvard University School of Medicine. Former Assistant Resident Surgeon and Associate in Surgery.
- 3:10-3:20—Further Experiences with Aseptic (Lymphocytic) Meningitis. Henry R. Viets, Instructor in Neurology, Harvard University School of Medicine. Former Surgical House Officer.
- 3:20-3:30—Radiation in the Treatment of Pituitary Adenomas. Richard U. Light, Assistant Resident Surgeon.
- 3:30-3:40—Experimental Observations on Sympathetic Vasomotor Pathways. A. W. Oughterson, Assistant Professor of Surgery, Yale University School of Medicine. Former Pathological House Officer and Assistant Resident Surgeon.
- 3:40-3:50—Diagnosis and Surgical Treatment of Brain Abscess. Gilbert Horrax, Neurosurgeon, Lahey Clinic. Former Surgical House

REPORT OF THE SUPERINTENDENT

Officer, Assistant Resident Surgeon, Associate in Neurological Surgery and Senior Associate in Neurological Surgery.

3:50-4:00—Spinal Cord Compression Due to Cartilaginous Tumors. Joseph S. Barr, Assistant in Orthopedic Surgery, Harvard University School of Medicine. Former Surgical House Officer.

4:00-4:10—Emotion as a Precipitating Factor in Convulsions. Frank Fremont-Smith, Assistant Professor of Neuropathology, Harvard University School of Medicine. Former Pathological House Officer.

4:10-4:20—Spastic Primates. John F. Fulton, Sterling Professor of Physiology, Yale University School of Medicine. Former Junior Associate in Neurological Surgery.

4:20-4:30—Aspirations of a Senile Adventurer in a New Field. Channing Frothingham, Physician-in-Chief, Faulkner Hospital. Former Physician.

IN SMALL AMPHITHEATRE

2:30-2:45—Welcome to Alumnae of the School of Nursing. Carrie M. Hall, Principal of School of Nursing and Honorary Alumna.

2:40-3:00—Psychiatric Nursing. Ruth M. Burrage, Class of 1929.

3:00-3:15—How I came to do Social Service Work. Lillian B. Hubbard, Class of 1917.

3:15-3:30—Prophylaxis in Tuberculosis. Jewell F. Crowley, Class of 1924.

3:30-3:45—Nursing in the Middle West. Hilda Gould McCarthy, Class of 1919.

3:45-4:00—Rural Visiting Nursing. Minnie G. Ross, Class of 1928.

4:30—Tea, given by Nurses' Alumnae Association. Squash or Tennis, Energy and Weather Permitting.

6:30—Dinner at the Peter Bent Brigham Hospital.

6:30-9:00—*Special Dinner at Vanderbilt Hall with Presentation of Portraits of Dr. Cushing and Dr. Christian. See Enclosed Special Sheet.*

9:00-1:00—Dance at Longwood Towers (Longwood Avenue and Chapel Street, Brookline—five-minute walk from Hospital).

SATURDAY, MAY 6

8:30-11:00—Surgical Operations and Ward Visits by Members of the Staff. Detailed Program to be found on Hospital Bulletin Boards.

IN AMPHITHEATRE

11:00-11:10—The Natural History of a Transplantable Mouse Melanoma. Victor C. Jacobsen, Cyrus Strong Merrill Professor of Pathology, Union University, Albany, New York. Former Medical House Officer, Pathological House Officer and Resident Pathologist.

11:10-11:20—Some Observations on the Use of Insulin in Malnutrition. Harry H. Blotner, Junior Associate in Medicine.

11:20-11:30—A New Method for the Calculation of Diabetic Diets. John M. Flynn, Junior Associate in Medicine.

11:30-11:40—Clinical Application of the Micro Interval Glucose Tolerance Test. Richard M. McKean, Assistant Professor of Medicine, Detroit

PETER BENT BRIGHAM HOSPITAL

College of Medicine and Surgery, Attending Physician and Director of Metabolic Unit, Detroit Receiving Hospital. Former Medical House Officer.

- 11:40-11:50—Studies in the Sensory Innervation of the Gall Bladder. Robert Zollinger, Resident Surgeon.
- 11:50-12:00—Electrosurgical Cholecystectomy. Lester R. Whitaker, Assistant in Surgery and Instructor in Anatomy, Boston University Medical School. Former Associate in Surgery and Assistant Resident Surgeon.
- 12:00-12:10—Pulmonary Tuberculosis in Relation to Diabetic Coma. Howard F. Root, Boston, Massachusetts. Former House Medical House Officer and Associate in Medicine.
- 12:10-12:20—What Happens Eventually to Patients with Hyperthyroidism and Significant Heart Disease Following Subtotal Thyroidectomy? Samuel A. Levine, Senior Associate in Medicine.
- 12:20-12:30—Experimental and Clinical Studies upon Pulmonary Fat Embolism. Louis G. Herrmann, Assistant Professor of Surgery, University of Cincinnati. Former Medical House Officer.
- 12:30-12:40—Recent and Future Developments of Roentgenology. John R. Carty, Radiologist-in-Chief, New York Hospital. Former Roentgenological House Officer.
- 12:40-12:50—Postural Drainage in the Treatment of Acute Pyelitis. Vincent Vermooten, Assistant Professor Urology, Yale University, and Associate Surgeon, New Haven Hospital. Former Assistant Resident Surgeon.
- 12:50-1:00—The Repair of Kidney Wounds with Ribbon Gut. Courtney C. Bishop, Assistant Resident Surgeon, New York Hospital and Assistant in Surgery, Cornell University Medical College. Former Surgical House Officer and Assistant Resident Surgeon.
- 1:00-2:30—Luncheon at the Peter Bent Brigham Hospital.
- 2:30-2:40—Some Physiological Effects of Total Gastrectomy in Man. (Case Report.) David Cheever, Surgeon.
- 2:40-2:50—The Effect on Digestion of Gastric Resection. E. S. Emery, Jr., Associate in Medicine.
- 2:50-3:00—Observations on Gastric Acidity Following Section of the Vagus Nerve and Following Anastamosis of the Vagus and Phrenic Nerves. David W. Gaiser, Boston, Massachusetts. Former Surgical House Officer.
- 3:00-3:10—Studies on the Physiology of the Bile. Charles W. McClure, Assistant Professor of Medicine, Boston University School of Medicine. Former Assistant Resident Physician, Resident Physician, and Associate in Medicine.
- 3:10-3:20—Trichiniasis as a Simulant of Intra-abdominal Surgical Disease. John Fallon, Surgeon, St. Vincent Hospital, Worcester, Massachusetts. Former Surgical House Officer.
- 3:20-3:30—Thoracic Stomach. Lyman H. Hoyt, Junior Associate in Medicine.
- 3:30-3:40—Constipation et Sequela. Louis F. Fallon, Augusta, Maine. Former Surgical House Officer.
- 3:50—Farewell. Elliott C. Cutler, Surgeon-in-Chief.

REPORT OF THE SUPERINTENDENT

The depression has continued so long that we have almost ceased to think of expenditures other than the actual necessities for operating the hospital. Our needs are many, but of these, probably the most outstanding is that of a new entrance to our Out-Door Department connected directly with Huntington Avenue. The plans for this have already been made and provide waiting space, admitting room, filing space for patients' records, offices for the Social Service Department, for an out-patient surgeon and the assistant superintendent responsible for out-patient supervision. The expense to accomplish these much needed changes and additions would not be large. Re-arrangement of the surgical building is highly desirable. It is to be hoped that when such is possible, ample provision will be made for the preparation of dressings and the sterilization of all supplies needed throughout the hospital in a suite of rooms centrally located, easily accessible from all parts of the hospital without going to the main operating floor. Large sterilizers will be required which can be used not only for dressings but for clothing and mattresses.

Many of our other needs have been mentioned in previous reports, including more suitable quarters for X-ray department and photography, for our record librarians and for medical records, a patients' library, also additional laboratory space, including a new autopsy suite.

The hearty co-operation of the staff and employees of the hospital, which I have repeatedly mentioned, has continued. In closing, I wish to thank members of the Corporation for their support throughout the year.

JOSEPH B. HOWLAND,
Superintendent.

DECEMBER 31, 1933.

PETER BENT BRIGHAM HOSPITAL

Table I

(This table is being omitted this year)

Table II

Comparative Tables of Statistics

HOSPITAL WARDS AND SINGLE ROOMS

Patients in hospital first of year :

	1933	1932
Medical	75	73
Surgical	84	90
Total	159	163

Patients admitted during the year :¹

Medical	1,830	1,996
Surgical	2,442	2,224
Total	4,272	4,220

Patients treated in hospital wards and private rooms during the year :

Medical	1,905	2,069
Surgical	2,526	2,314
Total	4,431	4,383

Patients discharged during the year :

Well	84	459
Improved	3,199	2,797
Unimproved	376	482
Untreated	328	233
Died	276	253
Total	4,263	4,224

¹ The apparent discrepancy between these figures and those shown in the summaries of Surgical and Medical statistics on pages 97 and 115, respectively, are explained by the latter tables including transfers from Medical to Surgical and vice versa.

REPORT OF THE SUPERINTENDENT

Patients in hospital end of year:

	1933	1932
Medical	77	75
Surgical	91	84
Total	168	159

Total patients days' treatment:

Paying patients	23,448	28,210
Part-paying patients	17,459	14,893
Free patients	23,735	25,198
Total	64,642	68,301

Percentage:

Paying patients	36+	41+
Part-paying patients	27+	22—
Free patients	37—	37—
Total	100	100

Average patients per day:

Paying patients	64+	77—
Part-paying patients	48—	41—
Free patients	65+	69+
Total	177+	187+

Medical	81+	82—
Surgical	96—	105+

Total	177+	187+
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Average time per patient in hospital 15+days 16+days

Daily average cost per patient..... \$7.60— \$7.49+

Daily cost per capita for provisions
for all persons supported..... .32+ .36+

Patients were admitted as follows:

Paying regular rate.....	1,662	1,797
Paying less than regular rate...	1,049	868
Free	1,561	1,555
Total	4,272	4,220

PETER BENT BRIGHAM HOSPITAL

OUT-DOOR DEPARTMENT

	1933	1932
Number of cases treated.....	7,976	8,173
Medical	3,150	3,549
Surgical	4,611	4,462
Urological	215	162
Number of visits	80,272	78,786
Medical	42,303	43,210
Surgical	32,708	30,408
Urological	5,261	5,168
Cost of maintenance of Out-Door Department	\$46,715.77	\$47,962.10
Daily average cost per patient.....	.57—	.61—

AMBULANCE

Ambulance calls during the year....	485	497
Average calls per day	1+	1+
Mileage for patients.....	3,806	4,496
Other business	1,499	1,768
	<hr/>	<hr/>
Total mileage.....	5,305	6,264

REPORT OF THE SUPERINTENDENT

Table III

Year	Expenses	Receipts	Number of patients admitted to wards	Total days' treatment	Average stay in hospital	Average cost per day per patient	Daily cost per capita for provisions per day	OUT-DOOR DEPARTMENT			
								Cost of maintenance	New cases treated	Visits	Average cost per visit
1913	\$190,510.41	\$36,571.58	1,370	25,157	20—days	\$7.02—	\$0.53—	\$10,081.39	8,347	30,434	\$0.33+
1914	256,423.25	69,251.23	2,843	49,295	17+days	5.15+	.35—	12,108.39	8,536	36,523	.33+
1915	269,913.46	88,651.55	3,417	60,242	18—days	4.48—	.33+	16,551.07	9,810	47,687	.35—
1916	308,413.81	116,519.00	3,712	65,291	18—days	4.72—	.35—	19,140.56	10,995	53,405	.36—
1917	324,777.80	138,512.48	3,674	65,129	18—days	4.93+	.40—	18,989.10	7,952	45,153	.43—
1918	321,547.28	154,026.47	4,025	66,669	17—days	4.81—	.44—	20,557.07	7,631	49,972	.41+
1919	377,253.15	193,741.63	4,282	65,546	15+days	5.76—	.51—	25,033.43	7,862	49,572	.50+
1920	453,853.94	262,413.29	4,316	69,541	16+days	6.53—	.59—	25,694.39	7,707	52,116	.49+
1921	483,921.52	301,918.05	4,315	68,556	16—days	7.06—	.47—	28,157.67	8,111	58,014	.49—
1922	492,676.00	325,667.28	4,685	70,695	15+days	6.97—	.45+	29,510.51	8,801	57,967	.51—
1923	540,524.41	367,369.45	4,775	74,854	16—days	*6.64—	.47—	32,218.89	8,846	59,336	.54+
1924	535,531.70	354,083.78	4,658	72,539	16—days	*6.83—	.46+	33,753.42	7,081	60,291	.56+
1925	557,252.24	365,749.62	4,422	72,411	16+days	*7.12—	.48+	36,188.43	6,192	55,632	.65+
1926	578,207.16	389,781.57	4,402	75,742	17+days	*6.97—	.48—	35,696.05	7,699	60,671	.59—
1927	620,177.85	412,568.64	4,607	78,645	17+days	*7.05+	.48+	42,276.58	8,164	57,162	.74—
1928	636,392.29	431,017.71	4,523	77,691	17+days	*7.25—	.48—	48,802.11	7,849	75,593	.66+
1929	663,064.84	456,916.54	4,472	78,743	18—days	*7.41—	.49—	53,963.24	7,784	76,523	.71—
1930	668,047.47	447,258.14	4,121	77,852	18—days	*7.68—	.49—	51,456.67	7,595	71,188	.72+
1931	668,839.02	418,586.38	4,056	72,256	18—days	*8.00+	.43+	47,962.10	8,173	78,786	.61—
1932	586,842.91	331,787.15	4,220	68,301	16+days	*7.49+	.36+	46,715.77	7,976	80,272	.57—
1933	539,977.78	257,739.65	4,272	64,642	15+days	*7.60—	.32+				

* 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932 and 1933 do not include the cost of special nurses.

PETER BENT BRIGHAM HOSPITAL

Table IV Expense and Revenue Statement

ADMINISTRATION EXPENSES

	1933	1932
Salaries, officers and clerks	\$34,253.74	\$34,524.87
Office expenses	200.00	.....
Stationery, printing and postage	6,347.85	5,461.77
Telephone and telegraph..	9,179.40	9,248.67
Liability insurance	2,687.14	2,444.91
Miscellaneous	699.12	617.17
Total administration expenses	\$ 53,367.25	\$ 52,297.39

PROFESSIONAL CARE OF PATIENTS

Salaries and Wages:

Physicians and surgeons	\$21,081.55	\$22,722.92
Sup't of nurses and assistants	8,814.34	8,919.00
Nurses	22,057.99	25,725.36
Special nurses	22,872.25	42,332.75
Orderlies	7,807.66	8,471.45
Druggists	6,453.94	6,659.95
Ward employees	9,091.06	10,319.55
Clerks	15,295.48	15,313.04
Instrument repairs	772.20	795.30
	\$114,246.47	\$141,259.32

Training School:

Salaries	\$ 4,253.33	\$ 4,316.92
Supplies	2,476.76	3,925.27
	6,730.09	8,242.19

Medical and Surgical Supplies:

Apparatus and instruments	\$ 1,339.80	\$ 2,823.36
Medical and surgical supplies	25,162.59	26,330.88
Alcohol, liquors and wines	1,458.23	1,614.43
	27,960.62	30,768.67

Amounts carried forward	\$148,937.18	\$180,270.18
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REPORT OF THE SUPERINTENDENT

	1933	1932
<i>Amounts brought forward</i>	\$148,937.18	\$180,270.18
Out-Door Department:		
Wages	\$17,035.94	\$17,245.76
Supplies	15,089.09	16,198.89
	<u>32,125.03</u>	<u>33,444.65</u>
X-ray Service and Photography:		
Salaries and wages.....	\$21,348.34	\$22,306.19
Supplies	9,659.46	13,997.64
	<u>31,007.80</u>	<u>36,303.83</u>
Library	800.00	800.00
	<u> </u>	<u> </u>
Total professional care of patients' expenses	\$212,870.01	\$250,818.66
DEPARTMENT EXPENSES		
Ambulance:		
Labor	\$ 2,137.64	\$ 2,307.00
Supplies	697.04	1,127.23
	<u>\$ 2,834.68</u>	<u>\$ 3,434.23</u>
Laboratories:		
Labor	\$14,631.28	\$15,008.90
Supplies	6,136.21	5,841.53
	<u>20,767.49</u>	<u>20,850.43</u>
Housekeeping:		
Labor	\$31,135.45	\$33,470.44
Supplies	8,230.81	7,700.61
	<u>39,366.26</u>	<u>41,171.05</u>
Kitchen:		
Labor	\$14,175.28	\$14,836.81
Supplies	1,300.54	1,365.67
	<u>15,475.82</u>	<u>16,202.48</u>
Laundry:		
Labor	\$ 9,288.54	\$ 9,688.99
Supplies	1,170.88	1,838.34
	<u>10,459.42</u>	<u>11,527.33</u>
Steward's Department:		
Labor	\$ 4,236.74	\$ 4,307.15
Provisions:		
Bread	2,202.33	2,381.91
Milk and cream	12,354.91	13,363.49
Groceries	16,312.13	16,070.29
Butter and eggs	7,970.42	7,946.96
Fruit and vegetables.	8,715.55	9,016.20
Meat, poultry and fish	16,886.75	21,163.24
	<u>68,678.83</u>	<u>74,249.24</u>
Total department expenses	\$157,582.50	\$167,434.76

PETER BENT BRIGHAM HOSPITAL

GENERAL HOUSE AND PROPERTY EXPENSES

	1933	1932
Electric department	\$ 4,340.86	\$ 4,061.56
Heat, light and power	56,163.69	54,416.22
Fuel	11.50	13.00
Gas	2,893.68	3,032.24
Insurance	2,554.70	137.82*
Water	4,371.42	4,508.92
Maintenance real estate and buildings	12,176.26	11,274.21
Maintenance machinery and tools	82.52	119.79
Plumbing and steam fitting	6,435.52	6,301.55
	<hr/>	<hr/>
Total general house and property ex- penses	\$ 89,030.15	\$ 83,589.67

EXPENSES FROM SPECIAL FUNDS

Reynolds Scholarship Fund \$	125.00	\$ 125.00
Social Service Fund	3,582.58	5,135.88
United Unemployment Fund	821.94	1,114.56
Social Service Special Gift Fund	1,837.55	2,227.39
Diabetic Research Fund	51.54	585.82
Gray Fund	13,250.96	19,648.91
Renal and Vascular Dis- ease Fund	1,663.01	209.13
Surgeon-in-Chief Fund	1,750.28	.....
Fiction Library Fund . . . . .	.....	2.29
Permanent Charity Fund	2,000.00	2,025.00
Dr. Murphy's Fund . . . . .	.....	100.00
Christmas Fund	15.00	.....
	<hr/>	<hr/>
Total expenses from Special Funds	\$ 25,097.86	\$ 31,173.98

CORPORATION EXPENSES

Miscellaneous	\$ 624.00	\$ 1,528.45
	<hr/>	<hr/>
Total corporation ex- penses	\$ 624.00	\$ 1,528.45

* Reduction from total.

REPORT OF THE SUPERINTENDENT

CAPITAL EXPENSES

	1933	1932
Metric gas machine.....	\$ 494.61	.....
Lights in operating room.	911.40	.....
	<hr/>	<hr/>
Total capital expenditures	\$ 1,406.01	.....

SUMMARY

EXPENSES

	1933	1932
Total administration expenses	\$ 53,367.25	\$ 52,297.39
Total professional care of patient's expenses.....	212,870.01	250,818.66
Total department expenses	157,582.50	167,434.76
Total general house and property expenses.....	89,030.15	83,589.67
	<hr/>	<hr/>
Total hospital expenses	\$512,849.91	\$554,140.48
Corporation expenses	624.00	1,528.45
Capital expenditures	1,406.01	.....
	<hr/>	<hr/>
	\$514,879.92	\$555,668.93

SPECIAL FUNDS:

Reynolds Scholarship Fund	125.00	125.00
Social Service Fund	3,582.58	5,135.88
United Unemployment Fund	821.94	1,114.56
Social Service Special Gift Fund	1,837.55	2,227.39
Diabetic Research Fund	51.54	585.82
Gray Fund	13,250.96	19,648.91
Renal and Vascular Disease Fund	1,663.01	209.13
Fiction Library Fund .....	.....	2.29
Surgeon-in-Chief Fund	1,750.28	.....
Permanent Charity Fund	2,000.00	2,025.00
Dr. Murphy's Fund	100.00
Christmas Fund	15.00

Grand total	<hr/> \$539,977.78	<hr/> \$586,842.91
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REVENUE

	1933	1932
Administration receipts...	\$ 1,548.06	\$ 1,974.93
Professional care of patients:		
Board of private room patients	\$54,732.38	\$84,155.29
Board of ward pay patients.....	73,747.74	78,118.57
	<hr/>	<hr/>
Amounts carried forward	\$128,480.12	\$162,273.86

PETER BENT BRIGHAM HOSPITAL

	1933	1932
<i>Amounts brought forward</i>	\$128,480.12	\$162,273.86
Special nurses	28,418.00	51,661.61
Out-Door Department..	44,038.13	48,208.70
Photography and X-ray	32,426.09	39,952.73
Miscellaneous	21,240.73	25,685.59
	<hr/> \$254,603.07	<hr/> \$327,782.49
Department Receipts:		
Ambulance	1,588.52	2,029.73
	<hr/>	<hr/>
Total hospital receipts....	\$257,739.65	\$331,787.15
	<hr/>	<hr/>
Cash from Treasurer:		
Current expenses.....	\$255,734.26	\$223,881.78
Reynolds Scholarship		
Fund	125.00	125.00
Social Service Fund...	3,582.58	5,135.88
United Unemployment		
Fund	821.94	1,114.56
Social Service Special		
Gift Fund	1,837.55	2,227.39
Diabetic Research		
Fund	51.54	585.82
Gray Fund	13,250.96	19,648.91
Renal and Vascular		
Disease Fund	1,663.01	209.13
Fiction Library Fund...	.....	2.29
Surgeon-in-Chief Fund..	1,750.28	.....
Permanent Charity		
Fund	2,000.00	2,025.00
Dr. Murphy's Fund....	.....	100.00
Christmas Fund	15.00	.....
Additional equipment...	1,406.01	.....
	<hr/> 282,238.13	<hr/> 255,055.76
	<hr/>	<hr/>
Grand total	\$539,977.78	\$586,842.91

Statement of Stock on Hand

	1933	1932
Administration supplies	\$ 3,914.18	\$ 4,201.47
Professional care of patients' supplies.	17,294.62	15,777.13
Department supplies	21,123.40	18,146.89
General house and property supplies...	1,282.06	1,062.89
	<hr/>	<hr/>
	\$43,614.26	\$39,188.38

Report of the Roentgenologist

Now that the depression is said to be over, we can look back and survey its effects. Lessons may be learned from its causes and results, and even hints as to future development may be discovered. Whatever the cause may be, the result was a decided curtailment of our work. This was apparently due to two factors, first, an executive order which prohibited unnecessary X-rays, promulgated to cut down expenses, and second the inability of the average paying patient to afford X-ray examination, even if the attending physician desired it. The peak of our work by volume came in 1931, when nearly 12,000 examinations were made. This fell to 9,650 in 1933, a decrease of nearly 20%. In the same period we cut the expenses of the X-ray Department from \$45,000 to \$34,500, a decrease of 23%. The income dropped even more, so that in spite of economies there was a deficit of a little over \$2,000 for 1933. It must be emphasized, however, that no patient unable to pay for X-ray examination was refused if it was requested by one of our physicians. The percentage of free patients has risen considerably in the past three years, and it is going to be difficult to get the department back upon a paying basis for that reason. Our charges are minimal for dispensary cases, most of them below the cost of the examination, but it is normal psychology for a person who gets something for nothing to expect and even to try to continue to get it free even when he may be able to pay for it. The privilege of free treatment has undoubtedly been abused in all of the large hospitals and the same problem is common to all departments. On the other hand it seems un-

ethical for one department to be exploited and urged to produce revenue for the general purposes of the hospital. In an institution such as ours with a moderate number of private patients, the X-ray department should be able to pay for itself and take care of depreciation and replacements. If there is any considerable excess of income over and above these requirements it is probable that either the fees charged are too high, or that the staff of the department is being exploited. The relations between Hospitals and Roentgenologists is a question which has been causing considerable discussion in our national societies and in our journals. Many codes of ethics have been suggested and uncounted resolutions have been passed, all with little effect, as the situation varies with each individual hospital, each with its own particular problems, and its own varying percentage of free and paying patients.

No single system or code can be used for all situations or for individuals of different abilities, but general principles can be stated and should be respected by both parties. These are being considered by our national societies as a part of the economic readjustment of medicine to the changing times and a response to the demand for less expensive but equally efficient or improved diagnosis and treatment. A major step in the direction of controlled specialization was in the formation of a National Qualifying Board for Radiology this year. This board is to function as similar boards in other specialties have done, and is to furnish a list of competent Roentgenologists to the profession, to the medical schools, to the hospitals and eventually to the public. It is in no way a licensing board, but purely an examining board to pass upon the qualifications of voluntary applicants. This board has already been

formed, the permanent organization has been effected and the first examination will be held during the American Medical Association meeting in 1934. The board will work in cooperation with but not subject to the Council on Medical Education and Hospitals of the American Medical Association. It is hoped that this will eventually raise the standards of our specialty in many ways and encourage the better students to enter Roentgenology as a life work. It is constantly becoming a broader specialty, covering more and more territory, until now there are specialists within the specialty—some men devoting all of their time to therapy, for example, others, especially in the larger clinics, devoting all or nearly all of their time to a major branch of diagnostic roentgenology, such as gastro-intestinal diagnosis, or neurological diagnosis. On the other hand various specialties are taking their section of our work unto themselves and making it a part of their routine. The dentists now do most of their own X-rays and many are more proficient at diagnosis than the general roentgenologist. Likewise the urologist, the orthopedist, the gastro-enterologist, the cardiologist have on occasions and in various clinics taken over their own X-ray work. This has many good features but also many drawbacks, particularly the latter when the individual is forced out of his own field by some unexpected finding, or worse still when he fails to recognize something out of his own specialty which the general roentgenologist would quickly identify. On the whole the tendency is both centrifugal and centripetal, and there is every reason to believe that the specialty will continue as an entity, but perhaps only in hospitals, clinics or groups where there is the opportunity not only to work but also to learn and to experiment.

For the fifth year in succession we have analyzed a part of our work, this year the diagnostic work done in cooperation with the Genito-Urinary Service under Dr. Quinby. The cystoscope and the X-ray are the two most important diagnostic tools of that service and the cystoscopic-radiographic rooms are an integral part of the X-ray Department since the rebuilding several years ago—both unhappily too far from the operating suite and pathological laboratories, but making the best of the unhappy arrangement. The only new development in this work worthy of note is the intravenous urography which has now been in use for several years. It has its place in selected cases, but is decidedly inferior to retrograde pyelography in routine work. On the whole it has been a disappointment. The best diagnostic results are obtained when there is an obstruction in the urinary tract, in some cases where retrograde pyelography is not feasible.

During the year 1933 there were 749 X-ray examinations made of the urinary tracts of 461 patients, including 253 pyelograms. The most frequent finding was urinary calculus, of which 95 cases were identified, eleven of them with bilateral calculi. There were no cases of hyperparathyroidism discovered in this group. Sixty-one of the 95 patients had not noticed or reported any hematuria. Thirty-four patients with hematuria, on the other hand, had entirely negative X-ray findings. There were 7 cases of renal tumor demonstrated by X-ray and 5 cases of renal tuberculosis. Nine cases with congenital anomalies were found, the most frequent being double ureters, present in six of them.

This is a relatively small number of cases and forms only 8% of our total work, but is time-consuming and

REPORT OF THE ROENTGENOLOGIST

more expensive than gastro-intestinal or pulmonary examinations, as more films are used per patient, and as the care of the accessory instruments has devolved upon our department, in return for its accessibility to the department.

The personnel of the X-ray Department has undergone a few changes as usual. Dr. Joseph H. Marks completed his year as Assistant Resident and accepted a position with the Truesdale Clinic in Fall River, Mass. as Roentgenologist. Dr. C. Carter Hamilton was promoted to fill Dr. Marks' place. The position of House officer was awarded to Dr. William W. Bryan, a graduate of Emory Medical School, who had served one year in the Jackson Memorial Hospital, Miami, Florida. We regret to record the resignation of Eleanor Hennessey our cheerful and efficient filing clerk who has been with us for six years. Her place has been filled by Dorothy Brogan. The staff otherwise remains intact. There have been no important additions to machinery or equipment, except the routine replacements. The lack of funds has held back the logical development and accessions which we hope will be overcome next year.

M. C. SOSMAN,
Roentgenologist.

DECEMBER 31, 1933.

TABULATION OF DATA, FIVE-YEAR INTERVALS

YEAR	Ward Cases	O. D. D. Cases	Private	All Others	Totals	X-ray Treatments	Films Taken	Dental Films	Alpine Lamp Treatments
1914	.....	.....	.....	...	3,571	.....	7,419	.....	.....
1919	2,511	2,812	143	136	5,602	43	11,067	2,200	.....
1924	3,869	3,283	1,031	200	8,383	916	15,408	3,530	1,097
1929	5,092	4,606	1,296	524	11,518	1,277	27,842	3,603	1,476
1933	3,662	4,354	1,024	606	9,646	1,444	17,581	6,265	385

Report of the School of Nursing

THE year ends with the following staff of graduate and student nurses:

Superintendent of Nurses and Principal School of Nursing	1
Assistant Superintendent of Nurses.....	1
Instructors	2
Supervisors	4
Night Supervisors	2
Graduate Head Nurses and Assistants in Depart- ments	16
Graduate Nurse Anesthetists	3
Graduate Nurses—X-ray Department.....	3
Graduate Floor Duty Nurses.....	12
Masseuse	1
Student Nurses	123
	<hr/>
	168

Fifty-nine students entered. Thirty have been graduated. Twenty-three have withdrawn. One has died.

Twenty students from the Children's Hospital continue to come for the six-month period for instruction and experience in the care of adults.

The nineteenth annual graduation exercises were held November 23 in the Assembly Hall at Simmons College. Mr. Curtis, President of the Corporation, presided, announced the graduates and presented the medal and scholarship. The Dr. John P. Reynolds gold medal for general efficiency during the three-year course was awarded to Elna Evelyn Jolikko of Rockport, Massachusetts. The John P. Reynolds scholarship for highest rank at the end of the second year was awarded to

REPORT OF THE SCHOOL OF NURSING

Elizabeth Kerr, Fisherville, Massachusetts, a student in the five-year course, with a grade of 95.5%.

The enrollment of the School presents more girls having had college preparatory work in secondary schools, and either full-time or part-time college preparation, than ever before. Because of this, the students are better prepared and many are a little older than usual, and should show somewhat more of maturity and judgment, and a capacity for more rapid development.

During the year, a student council has been created, solely through the efforts of the student group, with the idea of fostering good school spirit, and providing for some recreational and extra curricular activities. Perhaps this effort is due to the presence of more college girls in the School with previous experience with student organization. Rules for the conduct of the School continue to be formulated by the faculty. Mass meetings with the Principal have been held about once in six weeks, in which important events have been reviewed and the reasons for certain actions explained.

For many years it has been felt that there should be courses offered in the five-year program with Simmons College other than solely through the course in public health nursing, and the four-months affiliated undergraduate field work in public health nursing. These are excellent and have proved of much value to nurses who have elected public health nursing. But there has been a demand for courses in preparation for head nursing, and ward teaching and supervision. It is, therefore, a happy event of the year that these have been put into effect. The inclusion of these courses gives the five-year students a choice of subjects and experiences in the fifth year. Simmons College has added to its faculty

a nurse of wide experience in hospital and nursing work, and one who is fully qualified to teach these subjects on a collegiate level.

The College is also offering a one-year program in head nursing to graduate nurses. Those candidates must have had six months experience in general nursing practice, and their records show a standing above average, and potential ability for teaching and executive work. This School and hospital are participating in this by helping to provide field work for the course. Each department of the hospital has been helpful and co-operative in receiving the one student who has been assigned, and in giving her instruction and information, particularly showing her those things which make for the smooth-running of an institution through inter-departmental relations. The nursing staff has found a certain stimulation in the presence in the wards and offices of a student of an interested and inquiring turn of mind.

There seems to have been an urge this year on the part of many of the graduate staff of this School for more education. Three took summer courses in July and August at Teachers College, Columbia University, New York City. Four head nurses registered for the new course in ward administration at Simmons College in the spring term, and will take the course in ward teaching the coming spring term, and one is carrying the fall term course in ward administration.

The following incidents seem significant:

In a period of a little more than a year, two checks of \$100 each were received from graduates of the School. The first came a little over a year ago from a nurse who has been graduated ten years. She is holding a position

REPORT OF THE SCHOOL OF NURSING

as Superintendent of a hospital in New York State. The following quotation is from her letter:

"In appreciation of the scholarships given, I believe, by the Board of Managers during my training and in realization of the hardships brought on many students by the present financial conditions, I enclose you check for one hundred dollars, to be given at your discretion in two installments to a student whom you deem worthy. With it to her, whoever she may be, go my best wishes that she may find in nursing the joy and happiness that has come to me."

The second came in November from a nurse who was graduated in 1924. She is, at present, Assistant Superintendent of Nurses in a School of Nursing in New Jersey. Her letter in part is as follows:

"Exactly ten years ago this month at graduation, it was my great privilege to receive at the hands of Mr. Curtis, the first John P. Reynolds scholarship ever awarded. During the years since my own graduation, I have had opportunity to use that scholarship for further study in nursing education which, I feel, is the purpose of making such an award. The years have also served to deepen my appreciation that I am a graduate of a School of Nursing such as ours—founded on sound principles and steadily developing an ever-increasing fineness of tradition.

"As a tangible means of expressing this appreciation and in memory of my mother, I wish to return to my School in 1933, a sum equal to that which I received in 1923. The disposition of this sum I wish to leave to you, Miss Hall, and to anyone whom you may appoint."

She also made mention of the possibility of using this sum as the nucleus for an endowment fund for the School of Nursing.

These two unsolicited gifts seem to me to be extremely significant. They come from nurses who have

been successful in the nursing field. They show a fine appreciation of the benefits received from this School, a great loyalty to it, a desire to perpetuate the work and to be helpful to those who follow. They are, also, proof of the wisdom of the donor in providing for the John P. Reynolds annual award, and of the Corporation in granting certain sums annually.

It is well known that many of our great universities have received large endowments from the alumni. It is unlikely that a nursing school as small as this could ever hope to create a large endowment through its alumnae. But funds are needed for nursing education, which the hospital cannot supply.

It would seem as if these two alumna have set an example which might be followed by other successful nurses. Or classes 10 years out of the School might like to form the custom of coming back for re-unions on their anniversary, and make at those times a group contribution for nursing education.

There is, also, some need for a loan fund among the graduates for purposes of further study. At all events, the voluntary contributions on the part of these two alumnae are distinctly cheering, and careful thought must be given to the terms of acceptance of the latter.

Perhaps the most important development has been the creation by the Trustees of a Committee which is advisory to the School of Nursing. This Committee is composed of nine members; made up of two trustees, two members of the staff, two women interested in education, a graduate of the School of Nursing, the Superintendent of the Hospital, and the Principal of the School of Nursing. It is expected that this Committee will be a valuable adjunct to the School of Nursing; that it will be an aid in stabilizing nursing educa-

REPORT OF THE SCHOOL OF NURSING

tion and in continuity of nursing service; that it will be a factor in interpreting the problems of the School to the Board of Trustees; and a factor in interpreting nursing as a profession to the public. Already it has been helpful in securing some new teaching equipment for the classrooms.

It is a pleasure to acknowledge the fine understanding and support of the Superintendent of the Hospital in the problems of nursing service and nursing education, and also to record appreciation of the splendid co-operation of the medical and surgical residents in the care of the nurses in illness and in health.

CARRIE M. HALL,
Principal.

DECEMBER 31, 1933.

In Memoriam

BERNICE MARGARET YOUNG

DIED DECEMBER 19, 1933

BERNICE MARGARET YOUNG, daughter of J. C. Young of West Roxbury, Massachusetts, a student in this School of Nursing, died of agranulocytic angina after an illness of ten days, at the age of 24 years, 7 months, 8 days.

She had been a member of the School for nearly two years, and during that time had greatly endeared herself to her classmates and others in the School. She showed promise of developing into a competent nurse. Her going cast much gloom over the School, and her loss is keenly felt by all her hospital associates.

Report of the Social Service Department

THE following statistics show an increase in the number of patients with some definite social problem referred to the Social Service Department during the year 1933.

Brought forward from previous year.....	503
New patients	897
Reinstated	210

SURGICAL FOLLOW-UP CLINIC

This clinic was started at the Peter Bent Brigham Hospital in October, 1932, and has been held one afternoon weekly since then. Its purpose is to follow up every patient who has been on the surgical wards. The patient is asked to come to the clinic for a check-up on his operation or condition every six months or year, until such time as the doctors think his condition has improved sufficiently to discharge him from further care. The patients do not receive treatment in the Follow-Up Clinic but just a check-up. If treatment is found necessary, however, the patient is referred to some other clinic.

Three or four doctors attend the clinic. Besides a stenographer, there are a social worker and a volunteer. The volunteer is the clinic secretary and the social worker makes the appointments, thus having an excellent opportunity to talk with each patient and to assist him with any social or economic difficulty which may be troubling him at home or in any way interfering with his physical recovery.

PETER BENT BRIGHAM HOSPITAL

The follow-up work for this clinic is, as the name implies, quite extensive. Cards are sent to every patient a week before he is due to return to the clinic. If the patient fails to come to the clinic at his appointed time, he is sent a second card and if this brings no result a letter is sent. If there is no response to these three inquiries, the case is considered closed unless the doctor thinks it wise to follow the case even further. If so, a home visit is made to ascertain why the patient has not kept his appointment and to urge him to come to the clinic the following week. A second volunteer makes most of these calls.

Letters sent	196
Cards to patients.....	1,126
Cards to doctors.....	62
Calls	26
Clinic visits during year 1933.....	960
Average weekly visits.....	20
Largest clinic	39*
Smallest clinic	8†

NEUROLOGICAL-TUMOR CLINIC

There has been a Neurological Clinic at the Peter Bent Brigham Hospital for some time but in November, 1933, it was reorganized: It has now become the Neurological-Tumor Clinic, malignant tumors only, and has become a follow-up clinic as well as a diagnostic one. It now has a stenographer, a social worker and a volunteer clinic secretary. The clinic still seems comparatively small, there having been only six clinic meetings to date with an average attendance of thirteen.

A system of follow-up similar to that in the Surgical Follow-Up Clinic is used in this clinic, two cards and

* July 12, 1933.

† May 31, 1933.

REPORT OF THE SOCIAL SERVICE DEPARTMENT

a letter being sent to each patient if he does not keep his appointment. Home visits are to be made to the patients who are too long overdue.

Letters sent	7
Cards sent	42
Clinic visits during 1933.....	75
Average weekly visits	13

SURGICAL SERVICE

The majority of the cases referred to the Surgical Worker during the year 1933, were for convalescent care or nursing home care, there being 79 such cases in all. The next in order were 37 for District Nursing care and 26 who needed financial help in purchasing some form of surgical apparatus such as braces, orthopedic shoes or special abdominal supports. Other cases were referred for financial aid, institutional care, placement of children, special diets, vacations and transportation to and from the clinics.

Brought forward from 1932.....	46
New patients	214
Reinstated	42

MEDICAL SERVICE

The Social Worker on the Medical Service has most frequently been asked to make plans for institutional or sanatorium care for patients, the latter mainly for patients found to have tuberculosis of whom there has been a great number. The majority of the cases of tuberculosis have been of the pulmonary type, found most frequently in young people—six young men and women in their twenties, several between the ages of thirty and forty-five. There were also a few older peo-

PETER BENT BRIGHAM HOSPITAL

ple with new or recurrent infections. Arrangements for sanatorium care and help in family readjustments were made for all these. In addition to the cases of pulmonary tuberculosis, three patients were referred for sanatorium care because of intestinal or spinal tuberculosis.

Nursing and convalescent home problems were also many. In several instances where the family of the patient were unable to meet the problem because of lack of finances, money was raised by the Social Service Department to make the plan possible.

It has been necessary to secure additional aid for diets in cases of malnutrition, anemia or pregnancy, for patients whose families were dependent on the City Welfare. The Family Welfare Society has supplemented the City aid in many of these cases, thus making it possible for the patient to carry out doctors' recommendations, through the interpretation of the patients' needs by the Social Worker.

Brought forward from 1932.....	47
New patients	305
Reinstated	80

LUETIC CLINIC

In the Luetic Clinic during the past year, the effort to gather material for a study of contacts has been continued. Some idea of the numbers contacted so far can be given. About fifty blood tests on husbands, wives and children of the original patient have been done; several of these have had complete physical examinations, several others have had lumbar punctures on the wards, subsequent to the report of the blood test.

REPORT OF THE SOCIAL SERVICE DEPARTMENT

LUETIC CLINIC STATISTICS—1933

Patients brought forward from December 31, 1932.....	315
New patients	117
Men	63
Women.....	54
Reinstated	31
Men	17
Women.....	14
<hr/>	
Total membership during 1933.....	463
Closed during the year.....	141
<hr/>	
Present membership, December 31, 1933.....	322
Total number of patients during 1933.....	463

Men—243

Single	65
Married	170
Widowed ...	5
Divorced	3
White	214
Colored	26
Yellow	3

Women—220

Single	49
Married	147
Widowed	14
Divorced	10
White	181
Colored	39

Discharged	141
Transferred to other hospitals or L.M.D.....	30
*Discontinued treatment	48
Probably cured	7
Died	3
Seen in clinic but no definite diagnosis made.....	25
Lapsed treatment—reported to Board of Health by name	28
Total number of letters sent.....	659
Special Clinic letters	241
Board of Health letters.....	56
Special blood test letters.....	268
Treatment follow-up letters.....	94
*(Letters returned—37)	
*(Reported to Board of Health—not located—11)	
Total number of visits to Clinic during year.....	7,003
Men	3,585
Women.....	3,418

PETER BENT BRIGHAM HOSPITAL

G. C. STATISTICS—1933

Patients brought forward from December 31, 1932.....	63
New patients.....	79
Men 57	Women..... 22
Reinstated	15
Men 14	Women..... 1
<hr/>	
Total membership during 1933.....	157
Closed during the year.....	92
<hr/>	
Present membership, December 31, 1933.....	65
Total number of patients during 1933.....	157
<hr/>	
Men—128	Women—29
Single 74	Single 17
Married 51	Married 9
Widowed ... 1	Widowed ... 2
Divorced 2	Divorced ... 1
White .....110	White 25
Colored 16	Colored 4
Yellow :..... 2	
Discharged	92
Transferred to other hospitals or L.M.D.....	8
*Discontinued treatment	51
Probably cured	18
Died	0
Lapsed treatment—reported to Board of Health by name	15
Total number of letters sent.....	265
Special G.C. letters	222
Board of Health letters.....	43
*(Letters returned unclaimed—35)	
*(Reported to Board of Health—not located—4)	
Total number of visits to clinic during year.....	1,364
Men .....1,198	Women.....166

CARDIAC CLINIC

In looking back over the past year the months seem to have been occupied in attempting to tide over

REPORT OF THE SOCIAL SERVICE DEPARTMENT

presenting difficulties rather than opening new avenues of constructive activities. Many plans for just "carry-ing on" were of necessity made and for these there was lessened facility for obtaining money for making them effective. Consequently in many instances only the most urgent needs of the patients could be successfully met. The types of problems presented were, as always, numerous and varied.

Convalescent and vacation care have been outstanding needs for some of the ambulatory cardiacs in the worrisome days of the past year.

In several instances young women cardiacs have been the partial or sole support of their families. To raise money for a needed change of environment for these courageous girls has been an important activity of the social worker. A break in cardiac strength might easily have occurred without the provision of a real vacation with its complete let down from work and responsibility.

An occasional vacation for an unemployed man has proved desirable both from the family's point of view as well as his own. Living under the sorry and adverse days of recent years has had its baneful effect on the disposition of many a former wage-earner. Two weeks vacation in the company of others has sometimes been the means of a fresh stimulus and new paths of thought for his former stale outlook on life.

Occasionally young married cardiac women facing pregnancy for the first time were in need of expert hospital care beyond the financial means of their "out of work" husbands. Through co-operation between the cardiac social worker and the social workers in the maternity hospitals plans for pre-natal and confinement

care were arranged and in addition layettes were provided for the babies.

The Children's Mission, Children's Friend Society, New England Home for Little Wanderers, the Catholic Charitable Bureau and the various Jewish Welfare Centers have all given help in family foster homes.

It has been gratifying in the Cardiac Clinic to note the increase in weight and the general physical improvement following these placements.

For several of the children who were unable to leave their own homes, Country Week provided boat rides and car tickets to the beaches. This was a welcome change from hot tenements and dusty streets.

In reviewing the statistics of the Cardiac Clinic for the past year, it is shown that the total membership is increased by eighty-four over that of the previous year, and the total number of visits to Clinic by 132. Present attendance January 1, 1934, being 452.

The report of the work of the Cardiac Clinic would be incomplete without mentioning the generous Volunteer Service of Miss Katharine A. Homans who for twenty years has faithfully given assistance in the Cardiac Clinic. Her contribution of unselfish devotion has been valued by doctors, social workers and patients alike, by whom she is greatly missed. In the past year, Miss Homans' volunteer service for the Family Welfare Society has taken so large a part of her time and strength that it seemed unwise for her to attempt anything more at this time.

Following are the Cardiac Clinic statistics for the year 1933:

REPORT OF THE SOCIAL SERVICE DEPARTMENT

CARDIAC CLINIC STATISTICS—1933

Cases brought forward from January 1, 1933.....	406
New cases referred	210
Reinstated	44
<hr/>	
Total membership during the year.....	660
*Closed during the year.....	208
<hr/>	
Present attendance January 1, 1934.....	452
Total number of visits to clinic.....	1,517
Average number at clinic.....	16
Largest number at any one time.....	31
Smallest number at any one time.....	1
Of the 210 new cases referred (age division being made at 16 years inclusive) there were:	
56 men, 86 women, 36 boys, 32 girls	
Referred from Medical O. D. D.....	163
“ “ House Medical	9
“ “ Surgical O. D. D.....	1
“ “ The Children’s Hospital.....	22
“ “ L. M. D.....	4
“ “ Other sources	11

ARTHRITIC CLINIC

During the year 1933 there were thirty-six arthritic clinic days on which a total of 463 visits were made by patients. Eighty-four cases were carried over from the previous year and fifty-five new patients were seen, thus making a total of 139 active Clinic patients at the close of the year.

The Social Worker in this Clinic has a two-fold function to perform. She not only assists in the management of the Clinic but also does actual casework in which it is her responsibility to see that the doctor’s recommen-

** Thirty-nine are reporting yearly at the clinic but are counted as closed cases to correspond with American Heart Association.*

dations are not only understood, but that they are carried out by the patients.

Among Dr. Hall's and Dr. Monroe's recommendations for the treatment of Arthritic patients are a high-vitamin, low carbohydrate diet and frequent rest. Such a diet is expensive so supplementary financial aid from outside agencies is necessary for the many patients who themselves cannot afford the prescribed green vegetables, fruits and milk recommended.

The rest which is recommended does not often necessitate arranging for convalescent care. More often it means talking over with the patient her daily routine and after visiting her in her home planning with her a living readjustment by which she can get the necessary rest.

The Red Cross Motor Corps has continued to be of great service in providing for transportation of patients to and from the Clinic.

During the year 1933, 676 visits were made by patients to the Gastro-Intestinal Clinic. The average attendance per clinic day was fourteen patients.

The chief problem which the social worker meets in this clinic is that of supplying financial means by which a patient can get the expensive Sippy diet prescribed.

On several occasions the Department of Public Welfare has been asked and actually has increased a patient's weekly allowance so that he might follow the doctor's recommendations. In several instances a private agency such as the Family Welfare Society or the Boston Provident Society have been asked to supplement City aid or to provide money for an important item in the diet such as milk.

REPORT OF THE SOCIAL SERVICE DEPARTMENT

Patients have also been referred to the social worker for aid in securing teeth, free X-rays, medicine, help in securing employment and clinic supervision.

DIABETIC CLINIC

There were 1,051 visits made by patients to the Diabetic Clinic during the past year. The outstanding problem in this clinic, as ever, is that of providing insulin for patients who have inadequate incomes.

Although the hospital provides a large amount of insulin for these patients, Social Service has tried to provide insulin for patients through money raised from private agencies and from money given by the Unemployment Emergency Campaign Committee. This amount is given in another column.

There has been a volunteer clinic secretary each clinic day during the year and a social worker has supervised the work in the clinic.

A dietitian has called at the homes of patients who did not seem to understand their diet or whose condition was unsatisfactory.

✓

Miss Margery L. Crothers was granted a year's leave of absence for further study in the Simmons College School of Social Work.

Mrs. Esther Rosenow resigned the first part of the year to accept a full paying position with the Cambridge Family Welfare Society.

✓

The Red Cross Motor Corps gave much valuable assistance to patients unable to travel by street car. One hundred blankets were given by the Red Cross and were greatly appreciated by our patients.

PETER BENT BRIGHAM HOSPITAL

Gifts of clothing were also given by the Red Cross, the amount and types of which were limited and the supply was not equal to the demand.

The Waldorf Company, Inc., made a notable contribution this year through the gift of free tickets for Christmas dinners. This Department distributed fifty-seven of these to patients who apparently enjoyed their dinners and reported a good time.

A gift of seventy dollars (\$70.00) was given by the Trustees of the Lotta Crabtree Estate from the Mary Crabtree Fund, as in the past few years, for Christmas baskets.

At present there is no occupational therapist. Miss Grace Cummings volunteered her services during the first six months but did not feel able to continue longer. We are very grateful to her for the time she has given and we hope that in the near future she may be able to resume her work here.

Students from the Simmons College School of Social Work have been given supervised field work here the past year as formerly.

We take this opportunity to gratefully acknowledge the help and assistance given us by the Ladies Committee and also wish to express our appreciation for the financial aid which the Permanent Charity Fund, Inc., has given.

A group of six Wellesley College girls have acted as volunteers in the various clinics since October, 1933. They have each given an afternoon a week. There have been also four volunteers from the Junior League who have given half a day a week.

REPORT OF THE SOCIAL SERVICE DEPARTMENT

Two thousand four hundred thirty-three dollars and fifty-five cents (\$2,433.55) was given to the Social Service Department during the year: Eight hundred fifty dollars (\$850.00) from the Emergency Relief Campaign and one thousand five hundred eighty-three dollars and fifty-five cents (\$1,583.55) from other agencies and friends. There was a balance from last year of two hundred nine dollars and forty-two cents (\$209.42) in Special Gift Fund and one hundred thirty-five dollars and forty-four cents (\$135.44) Unemployment Fund making total amount for year \$2,778.41. Used as follows:

	<i>Special Gift Fund</i>	<i>Unemployment Fund</i>	<i>Total</i>
Insulin	\$ 93.35	\$183.65	\$277.00
Milk	19.00	149.23	168.23
Teeth	56.00	134.50	190.50
Convalescent care	260.77	49.00	309.77
Nursing care	391.06	20.00	411.06
Surgical Appliances	44.33	226.92	271.25
Christmas baskets*	104.39	.....	104.39
Transportation	70.60	2.70	73.30
Extra services:			
Workers in S. S. Dept...	211.90	.....	211.90
Nourishment	57.97	61.00	118.97
Clothing	33.79	65.90	98.69
Lodging	57.40	18.00	75.40
Miscellaneous	182.99	74.44	257.43

A list of the contributors to the Special Gift Fund will be found on the page with other donations.

* Money given especially for this type of service.

PETER BENT BRIGHAM HOSPITAL

STAFF OF WORKERS

General Service

ALICE M. CHENEY, R.N.

Cardiac Service

THEKLA ANDREN

KATHARINE A. HOMANS (volunteer) resigned November 1, 1933

KATHERINE BALCH (volunteer)

Surgical Service—Follow-up Clinic, Tumor Clinic

PRISCILLA GIBBS, A.B.

General Medical Service—Luetic Clinic

BERNICE TOBIAS, A.B., B.S.

Gastro-intestinal Clinic, Arthritic Clinic, Diabetic Clinic

BARBARA HALL, A.B., M.S.

GENERAL VOLUNTEER SERVICE

ESTHER ATWILL

KATHERINE BALCH

JEAN ARROWSMITH

OLGA CAUHAPE

MARY EMLÉN

HELEN EICHELBERGER

MRS. MORGAN HARRIS

LAURETTE LOS

KATHERINE NOYES

MARJORIE RAHMANN

ELLEN PIERCE

CLERICAL STAFF

ADDIE M. COOLIDGE

KATHLEEN O'TOOLE

ALICE M. CHENEY, R.N.,
Chief—Social Service Department.

DECEMBER 31, 1933.

Report of the Pathologist

THE figures for the department are as follows:

Autopsies, medical service	90
Autopsies, done outside for medical service...	2
Autopsies, surgical service	77
Autopsies, done outside for surgical service...	8
<hr/>	
Total number of autopsies recorded.....	177
Reports on surgical specimens.....	1,631
Reports on bacteriological specimens.....	1,328
Guinea pig inoculations for suspected tubercu- losis	192
Ascheim Zondek tests.....	98
<hr/>	
Total	3,249

There were 276 deaths in the hospital, of which 143 were medical, and 133 surgical. Eleven deaths, 3 medical and 8 surgicals, were investigated by the Medical Examiner.

The percentage of autopsies for the year after deducting the 11 cases taken over by the Medical Examiner proves to be 64+%. The percentage of autopsies for the various services is: Medical 65%; Surgical 63+%. .

The number and percentage of autopsies for all years are:

Year	Number	Per Cent
1933.....	177.....	64.0
1932.....	179.....	69.0
1931.....	219.....	75.0
1930.....	192.....	64.4
1929.....	240.....	68.6

PETER BENT BRIGHAM HOSPITAL

1928.....	219.....	59.6
1927.....	196.....	63.4
1926.....	179.....	62.0
1925.....	204.....	70.7
1924.....	177.....	70.0
1923.....	153.....	58.0
1922.....	174.....	68.0
1921.....	158.....	62.8
1920.....	155.....	58.2
1919.....	102.....	40.0
1918.....	145.....	40.0
1917.....	114.....	55.6
1916.....	113.....	49.5
1915.....	101.....	47.6
1913 and 1914.....	147.....	58.5

The number of surgical and bacteriological examinations made each year are:

Year	Number
1933.....	3,249
1932.....	2,730
1931.....	2,615
1930.....	2,577
1929.....	2,649
1928.....	3,497
1927.....	2,821
1926.....	3,101
1925.....	2,613
1924.....	2,819
1923.....	2,708
1922.....	2,391
1921.....	1,984
1920.....	1,826
1919.....	1,628
1918.....	2,224
1917.....	1,248
1916.....	1,140
1915.....	1,030
1914.....	847

REPORT OF THE PATHOLOGIST

The number of demands upon the Department of Pathology for assistance in preparation of publications by members of the clinical departments increases each year. This is as it should be and reflects favorably upon the competency of the pathological staff. Our services would be increased and the productivity of the pathological staff increased if an additional house officer could be accommodated. The demand for training in pathology has become greater year by year and the creation of another internship would in itself be of service in meeting a demand now almost universal in men seeking high standards of preparation for medicine and surgery.

Changes in the staff in the last year were as follows:

Dr. Robert E. Gross, having completed services in Pathology and in Surgery at the Children's Hospital, Boston, succeeded Dr. Horsfall in May, 1933, who after a research period in Bacteriology, assumed his duties as Resident in Medicine at the Royal Victoria Hospital in Montreal.

Dr. Orville T. Bailey, having completed a Surgical Service at the Albany General Hospital in Albany, New York, succeeded Dr. Irving D. Thrasher in September, 1933. Dr. Thrasher was appointed Resident Surgeon to the Illinois Research Hospital, Chicago, Illinois.

Publications printed since the last annual report are:


- WOLBACH, S. B.: Obituary. William Thomas Councilman. *The Archives of Pathology*. July, 1933, 16, pp. 114-119. Controlled Formation of Collagen and Reticulum. A Study of the Sources of Intercellular Substance in Recovery from Experimental Scorbutus. *The American Journal of Pathology*, 9, *Supplement*, 1933.
- BLACKFAN, KENNETH, and WOLBACH, S.B.: Vitamin A Deficiency in Infants. *The Journal of Pediatrics*, St. Louis, 3, No. 5, p. 679. November, 1933.

PETER BENT BRIGHAM HOSPITAL

- BYERS, R. K., and HASS, GEORGE M.: Thrombosis of the Dural Venous Sinuses in Infancy and in Childhood. American Journal Diseases of Children, 45, pp. 1161-1183. 1933.
- HOMANS, JOHN, and HASS, GEORGE M.: Regional Ileitis. New England Journal of Medicine, 209, pp. 1315-1324. 1933.
- GROSS, ROBERT E.: Idiopathic Dilatation of the Common Bile Duct in Children. Journal of Pediatrics, 3, pp. 730-755. November, 1933.

S. B. WOLBACH,
Pathologist.

DECEMBER 31, 1933.



Report of the Surgeon-in-Chief

THE opportunity to write my second Brigham Hospital annual report finds us completing the period of adjustment after my long stay in the middle west. I have found adjustment here, in spite of our returning to an environment with which we had long been familiar, more difficult than we had anticipated. Time flies and the changes in an eight-year period are extensive. Readjustment has entailed the establishment of happy relations not only with a large faculty, but also with the great group of professional colleagues in our district. It has necessitated the building up of a new group of patients that will be both available and valuable for teaching purposes, and finally the labor of starting investigations in laboratories which have had to be somewhat altered for our purposes.

Now that we have more fully shaken ourselves in the environment, it may be hoped that the surgical service will be able to report greater progress in the ensuing years. The Hospital service must always come first and to that matter we have largely devoted our chief energies. The organization within the surgical staff has undergone no important change and there have been no personnel shifts of significance, but the inevitable attempts to adjust the service so that the interne's time is properly balanced in his various stages of work has necessitated minor changes. Our increasing desire to improve the Surgical O. D. D. has necessitated a greater amount of time from both the senior and junior staffs in that part of our hospital organization. In addition to the establishment of a general *Follow-Up Clinic* which checks the results of all our work as separate

from the ordinary surgical O. D. D. examinations, we have instigated several special clinics; *viz.*, a *Gynecological Clinic*, an *Orthopedic Clinic*, a *Vascular Clinic*, and a *Tumor Clinic*. We have further extended the close affiliation with the medical service by the attendance of Dr. Cheever at the *Gastroenterologic Clinic*, run so well for many years by the medical service.

The addition of these special clinics has led, as would be expected, to an increase in the O. D. D. attendance. More particularly we have greatly increased our gynecological attendance, which is desirable in that this form of work constitutes one of the safest and therefore one of the most satisfactory branches of surgical work in an institution devoting itself in part to the training of young surgeons. The addition of the Tumor Clinic, which meets once a week in special rooms and which is attended by Dr. Sosman representing roentgenology, either Dr. Wolbach or Dr. Hass representing pathology, and by myself representing surgery, has brought us an increasing number of patients as well as assured us of the better care of patients afflicted with malignant disease. The establishment of this special clinic has also made it possible for us to obtain radon from the supply at the Palmer Memorial Hospital, thus adding to our ability to fight cancer with all modern technical means. Patients with malignant disease picked up in any O. D. D. clinic, either medical or surgical, go to this Tumor Clinic for reference and recommendation before admission to the Hospital; and all tumor cases on discharge from our wards are referred back to this clinic for further care and disposition. Patients with malignant disease will never be discharged from the rolls of this clinic, so that we shall eventually have a valuable follow-up on this type of

disease. It is true that all of these special clinics need amplification and it is our ambition to devote considerable energy to their improvement. It is indeed easy to visualize now that this will eventually necessitate a great increase in the space devoted to this form of work and will also eventually mean that the O. D. D. will become one of the chief sources for the education of our students. Here will be the focal point where the study of most cases can be carried on until the diagnosis is made. Thus the Hospital beds may be chiefly devoted to care subsequent to therapy or reserved for special and intensive study of fields for therapy and investigation.

These special clinics are in addition to Dr. Quinby's long-standing *Genito-urinary Clinic*, but this clinic too has shown increased attendance, possibly through the fact that we have had the expert services of Dr. Eckels in addition to the resident staff as of past years. The *Orthopedic Clinic*, originally begun to give our third-year students better teaching in this specialty and having its original conception in the mind of our colleague, Dr. Robert Osgood, has shown extraordinary development and has resulted in our feeling it wise to add an active orthopedic staff to the Hospital rolls since cases studied in this clinic are now admitted to the surgical service for operative care. Thus, both Dr. Brewster and Dr. Green, former internes of this institution, are now members of our senior staff.

Another phase of adjustment to this community is seen in our attempt to establish cordial relations with our surrounding professional colleagues. We have made it a routine that not only shall a doctor referring a patient be asked to the operation, but in each instance a summary of the case is sent to him at the time of the

patient's discharge. A card index of all cases referred by outside physicians is carefully maintained, and those physicians who send a considerable number of patients to the surgical service are put on the surgical staff mailing list for reprints as well as sent special invitations to our general hospital activities. This seems to have a kindly effect and an increasing number of local physicians are seen in our operating rooms and at our staff exercises. We feel that the presence of these physicians in the Hospital is of benefit to both parties. We benefit not only from being able to acquire additional evidence, but from our house staff widening their experience with their professional colleagues; and we hope these neighbor-colleagues benefit from a closer contact with hospital work in general as well as by cementing their relations with their patients through this demonstration of interest.

Some minor changes in the organization of the service may have been partly effected by our desire to increase the usefulness of the Hospital for our students. It is always difficult to estimate just how far one should go in devoting time to students, but it would be unfortunate should the students of the Harvard Medical School fail to have a warm feeling for the services available to them in our Hospital. My ambitions in this may seem too vigorous for a staff as small as ours, though we all can agree that we would like to have the Brigham Hospital remain a popular selection among our medical students. The *second-year surgical curriculum* has been considerably altered, so that the students now attend a good many exercises, in the spring of their second year, in section work on our wards. I have personally shouldered the responsibility for this particular teaching, feeling that the most important matter

REPORT OF THE SURGEON-IN-CHIEF

in the education of the young doctor is the primary concepts he achieves when he first enters into his clinical work. Thus the matters of the care of sepsis and trauma and the principles of surgical technique which are covered in the second year have been taught largely by myself on our wards. The *third-year teaching* in the O. D. D. has remained under the care of Dr. H. F. Newton and Dr. W. V. Cox, who have varied the teaching both by sending the group for one morning a week to our Orthopedic Clinic and further by a number of simple operating-room exercises which I have attempted to give. The *fourth-year clinical clerk service* has remained unaltered in that we have continued to give to the students the closest association with our work and our patients in order to develop in them a deep sense of responsibility toward their hospital activities.

It must appear that the load carried by the senior staff has been increased both as regards teaching and attendance in the O. D. D. I should like here to acknowledge to our surgical staff my deep sense of gratitude for their unstinting devotion to everything which would seem to enlarge and extend the activities of this Hospital. No hospital could have a staff more completely devoted to its welfare.

Some of the special meetings held in the Hospital deserve space in the report of this year for they are of interest to our own graduates as well as being representative of how a hospital can be of educational value in a broader sense than is always visualized.

The Twentieth Reunion held here in May of 1933 was a great fillip to those of us who had recently returned to the Hospital, and the evidences of devotion to this Hospital given at that time only increase our wish

to carry on our surgical traditions in the manner desired by former members of the surgical service. The dinner in Vanderbilt Hall during the Reunion festivities, at which the portraits of Dr. Cushing and Dr. Christian were presented, the former to the Brigham authorities and the latter to the University authorities, will always be one of the high points in the history of the Brigham Hospital. And the papers presented at the scientific meetings of the Reunion are the best evidence of the type of individual who has had a part of his training within the walls of this Hospital.

During the year the usual meetings of the Harvard Medical Society continued, ably directed by Dr. Homans, and the almost complete filling of our amphitheater and sometimes the overfilling of it at these meetings evidences another phase of our influence. The fact that this meeting is not a purely hospital function to which the name "Brigham Hospital" is attached has on occasion given rise to adverse comment. It appears to us that perhaps our influence is wider and the students even more likely to attend if we retain the original name of the "Harvard Medical Society," even if the other hospitals do now run somewhat similar meetings.

A particularly interesting occasion deserving record here was the celebration in connection with the 150th Anniversary of the opening of the Harvard Medical School. On October 6, 1933, there were scientific exercises in the Medical School and in the various hospitals for the alumni, and on October 7, 1933, was held a most stimulating and colorful occasion in Saunders Theater, Cambridge, at which our present Hersey Professors, Dr. Christian for the Professorship of the Theory and Practice of Physic and Dr. Bremer for the Professorship of Anatomy (originally the Professorship

REPORT OF THE SURGEON-IN-CHIEF

of Anatomy and Surgery held by the first Warren) spoke in terms reminiscent of the occasion when the Harvard Medical School was established.

CHANGES IN PERSONNEL. *Senior Staff.* There have been no changes of moment in the attending staff of the Hospital, either as to the division of work or the individuals. We have, however, attempted to continue our policy of strengthening the consulting staff and as of November, 1933, added Dr. A. H. Brewster as a Junior Associate in Orthopedic Surgery, and in February, 1934, Drs. J. H. Waite and Trygve Gundersen as Consulting Ophthalmologist and Associate Ophthalmologist respectively. There can be no doubt but that the addition of consultants has led to a greater variety in the material admitted to the Hospital as well as affording us the stimulus and advantages which expert advice always brings to the staff of a hospital as well as to the patients.

Resident Surgeon. We have been fortunate in having Dr. Robert Zollinger continue for a second year in this most important position. He has shown great energy and ability in the direction of the house staff, has assisted greatly in our teaching load, and has been an admirable stimulus in every way. Meanwhile his technical abilities have led him to the performance of major surgical procedures with exceptional finesse. It is our pleasure to be able to record here that he will stay on for another year at least in a more senior position on our staff, taking over next July from Dr. H. F. Newton the onerous and important task of supervising both the care of patients and the teaching in the O. D. D.

Assistant Resident Surgeons. During 1933 three of our Assistant Resident Surgeons have left the service..

Dr. Kenneth Wade Thompson, who had been here successively as interne, special worker in the Laboratory of Surgical Research, and Assistant Resident Surgeon, finished his tour of duty in March, 1933. At that time he was appointed *Harvey Cushing Fellow*. This Fellowship, when the funds supporting it were donated to the Hospital by Dr. Cushing, was known as the Surgeon-in-Chief Fund and was later named in Dr. Cushing's honor by the Trustees. The Fellowship may be utilized either for a Traveling Fellow or for a special worker in the Hospital. It seemed to us that a Fellow working both in the Hospital and in the Laboratory, perhaps on problems originating in the clinic, might best exemplify that form of investigative work to which Dr. Cushing so ardently and with such distinction devoted himself. Dr. Thompson held this post from March until September, during which period he continued his work on problems, which he had already started in the Laboratory of Surgical Research with Dr. Cushing, relating to the experimental production of basophilism, as well as assisting us in the Hospital laboratory and upon the wards in studies concerning intrapleural pressures. During this period he also completed an excellent article on spinal anesthesia which has since been published, as has some of his experimental work on basophilism, the latter in conjunction with Dr. Cushing. In September, 1933, Dr. Thompson left as *George Gorham Peters Traveling Fellow* to work in Germany.

Dr. Richard U. Light, who had been carried over from Dr. Cushing's service, finished his tour of duty in July, 1933, and went to New Haven where he has devoted his time largely to experimental neurological investigations. A recent note in the March 30, 1934,

REPORT OF THE SURGEON-IN-CHIEF

issue of *Science* describing a new apparatus for continued stimulation of the central nervous system is a splendid evidence of his considerable ability and continued progress.

Dr. Ernest F. Bright, originally a graduate of the Harvard Medical School, who had been with us in Cleveland as interne and Laboratory Fellow and who came here in September of 1932, completed his service in November, 1933. Following this he spent an extra month completing some laboratory work and writings and then returned to Cleveland to succeed to the post of Resident Surgeon at the Lakeside Hospital. It was a particular satisfaction to me that one of our men should return to the hospital where so much of our energies had been expended in the last eight years.

As these men have gone off duty, new incumbents have been attached to the service. In March, 1933, Dr. Charles D. Branch, who came from the University of Michigan to serve as one of our surgical internes at the Lakeside Hospital, Cleveland, began his tour of duty here; and on July 1 Dr. Cornelius B. Wood, who had held the post of Arthur Tracy Cabot Fellow for the preceding year, commenced his service. In November, 1933, Dr. Harold F. Robertson, who had been a special surgical fellow working in the Laboratory of Surgical Research for the preceding year, commenced his service. With Dr. Robertson a graduate of the University of Toronto, Dr. Wood a graduate of Michigan and Dr. Branch another graduate of the Michigan school, we seem perhaps to have emphasized the advantages of mixing into our staff men educated away from this particular environment. It, however, may be added that in the period of adjustment and because of hold-

overs from another regime, such diversification was inevitable.

House Officers. The usual changes have occurred in our interne service. In February, 1933, Dr. Jean DuMortier and Dr. David W. Gaiser left the service, both going to New Haven, the former as Assistant Resident Surgeon in the New Haven Hospital and Dr. Gaiser to the Department of Pathology, Yale Medical School. It is with deep regret that we record here the sudden death at New Haven of Dr. DuMortier on January 19, 1934, from a gas bacillus septicemia, the portal of entry of which is unknown. He had recently married Miss Marguerite Robb, a graduate of our own School of Nursing, in whose great loss all members of the Brigham family share.

In May, 1933, Dr. Frederick H. Shillito left us to fill a post at the Presbyterian Hospital, New York, and Dr. Darwin E. Bennett went to the Boston Lying-in Hospital for a short service to enlarge his general training.

In August, 1933, Dr. Edward M. Drissen left us to assume the post of Assistant Resident Surgeon in Louisville, Kentucky, where Dr. Clarence E. Bird, a former Resident Surgeon of this Hospital, is now the Professor of Surgery. At the same time, Dr. Philip Shambaugh completed his internship and became Arthur Tracy Cabot Fellow in charge of the Laboratory of Surgical Research. In November, 1933, Dr. Peter A. H. Midelfart left us to fill a post in pathology under Dr. Opie at the Cornell University Medical College, and Dr. Robert L. Patterson left at the same time to take up his service of two years as orthopedic fellow at both the Children's Hospital and the Massachusetts General Hospital.

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The new incumbents of the surgical house officerships as usual came on in pairs. In March, 1933, Dr. Storer P. Humphreys, a graduate of the Yale Medical School, and Dr. Carl W. Walter, a graduate of the Harvard Medical School, began their duties. They were followed in July by Dr. Robert R. Bates, a graduate of Northwestern University School of Medicine, and Dr. Walter A. Reiling, a graduate of the Harvard Medical School. Unfortunately, Dr. Bates after two months' service showed signs of loss of weight and easy fatigability, and X-ray studies as well as the physical examination gave evidence of the incipient signs of pulmonary tuberculosis. After careful studies here and rest he was transferred to the Trudeau Sanatorium at Saranac where he has made splendid progress, and he is to report back to the Hospital for duty in another six months. The post vacated by Dr. Bates has been filled by Dr. John E. Dunphy, a graduate of the Harvard Medical School, who had done well at the time of the interne examinations, was much liked by other members of the house staff, and who fortunately for us had been putting in his time studying pathology with Dr. Wolbach. In November of 1933, Dr. Hall Seely, a graduate of the Harvard Medical School, and Dr. J. Hartwell Harrison began their services. Dr. Harrison graduated from the University of Virginia and had already completed a service in medicine under Dr. Wearn at the Lakeside Hospital, Cleveland, Ohio.

During the last year and a half we have had frequent talks with Dr. William E. Ladd, Chief of the general Surgical Service at the Children's Hospital, with the hope that eventually an arrangement may be made between the Brigham Hospital and the Children's Hospital surgical services so that a common internship can

be set up. This would permit our internes the great advantage of some training in this most important branch of surgery and would assure to those men who desire a service in children's surgery something broader than that special form of surgery alone. After all, children's surgery is a specialty and men desirous of entering this field should have a broad general training either before or at the same time this special training is going on. Moreover, the special training in children's surgery alone is hardly adequate for those desirous of entering practice without a further hospital service. It would appear that such a joint service would be highly beneficial to both the Brigham Hospital and Children's Hospital and should give us a particularly satisfactory surgical interneship. Possibly our present period of sixteen months will have to be extended to cover such an arrangement, but the difficulty should not be insurmountable since the goal appears so much worthwhile.

Fellows. Arthur Tracy Cabot Fellow. In the report of last year it was mentioned that Dr. Cornelius B. Wood held this post from September of 1932 to July of 1933. During this period of time he busied himself with several problems, chiefly the working out of a satisfactory method for causing bronchial stenosis via the oral route. Working with many caustic substances he eventually found that by the application of a 25% aqueous acriflavine solution to the bronchial mucosa through a bronchoscope a chronic injury occurred which resulted in the gradual formation of scar tissue sufficient to cause complete occlusion from a single application. This method, which holds out the ability for selected pulmonary collapse, offers a wide

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field for clinical application if it can be made safe and sure, and it has already received application in this Hospital in a case of pulmonary tuberculosis with a broncho-cutaneous fistula. Dr. Wood has further elaborated his problem by producing pulmonary tuberculosis in dogs and then studying the effect of establishing a bronchial occlusion by his method as a way of causing atelectasis of the affected lobe for therapeutic reasons.

In September, 1933, Dr. Wood was succeeded by Dr. Philip Shambaugh as Arthur Tracy Cabot Fellow. Dr. Shambaugh, though commencing with a problem also involving thoracic disorders, a favorite field of ours for investigation, was soon switched over into experimental work in conjunction with our clinical studies upon the effect of total thyroidectomy in angina pectoris. By most ingenious methods he has shown that the addition of small doses of adrenalin to an animal whose coronary artery is partly blocked may bring about a severe attack of angina. Elevation of the pulse rate, achieved under the same conditions by the utilization of atropine, has been shown to be a less important factor. Dr. Shambaugh has evinced, at the same time, considerable ability in running the Laboratory smoothly. This experience in the administration of the Laboratory I have always looked upon as one of the most important advantages to the man assuming this position.

Fellow in Urology. As was mentioned in last year's report, Dr. Quinby is served by a Fellow in Urology, who devotes his full time to this matter, as well as an Assistant Resident Surgeon during his second four-month period in our present assistant resident system. Dr. Lawrence L. Howard, who came here in September,

1932, left us in July, 1933, to go to Atlanta, Georgia. His association there in these years of depression was not entirely satisfactory and now he has moved to Great Falls, Montana, where he seems to be happily situated. He was succeeded by Dr. Richard E. Alt, who had completed his surgical internship at the Massachusetts General Hospital.

George Gorham Peters Traveling Fellow. This post is filled by Dr. Kenneth Wade Thompson, who has spent most of his time in Freiburg, Germany, under Professor Sigurd Janssen, following up the lead he obtained here in trying to extract from the anterior pituitary lobe a thyroid-depressing substance. Dr. Thompson is now about to return home and letters from him inform us that his work has been satisfactory and that the goal he desired has been achieved. Dr. Thompson went to work with Professor Janssen because of the latter's important investigations in the field of modern hormonology and in particular the hormones relating to the pituitary and the thyroid.

Dr. Thompson has also corresponded with Mr. George Gorham Peters, the donor of this Fund, and has increased the latter's personal interest in the matter of his Traveling Fellowship. It is proper to state here that Mr. Peters has been greatly pleased with the activities of the men who have held this Fellowship and has a sincere belief that sending young doctors to Europe not only brings back to this country knowledge of great advantage, but also tends to bring about a feeling of good will between the nations.

The *Harvey Cushing Fellowship* was filled from March to September by Dr. Thompson before he left for Europe. It was then filled by Dr. Max T. Schnitker,

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a graduate of the University of Michigan Medical School, whose twin brother has been a happy member of our medical staff for the last year and a half. During his incumbency of this post Dr. Schnitker has evidenced an industry and capacity which has added greatly to our ability to prosecute serious investigations. He has been responsible for setting up our room for the determination of skin temperatures and with Dr. Carl W. Walter has set into action the Hospital Surgical Laboratory where experimental blood-chemistry determinations are now carried out.

INVESTIGATION. Under this head there must be at least two captions: (1) The activities in the Laboratory of Surgical Research, and (2) those activities more properly confined to the Hospital itself. Within the Hospital the usual clinical studies have been going on, as can be seen by a study of the publications. The activity and stimulation of Dr. Zollinger has meant that more of our younger men have begun their literary pursuits. In the publications will be seen a paper written by one of our clinical clerks, and a considerable number of case reports and statistical studies completed by the house staff are now in press though they do not appear in the publications for this year.

Investigations involving the Laboratory have been conducted by our staff in several quarters. Dr. Homans, working with Dr. Cecil K. Drinker in the Laboratory of the School of Public Health, continued his studies on the production of edema in the extremities. In the Laboratory of Surgical Research the work by Dr. Wood on endobronchial stenosis has already been mentioned. At the same time, in this Laboratory Dr. Robertson and Dr. Cox completed their experiments on the action of

denervated hearts with and without nerve anastomoses, and Dr. G. Kenneth Coonse, a member of the Department of Orthopedic Surgery, has continued his investigations of the last two years concerning the rôle of intrapleural pressure in relation to respiration and the major circulation. The paper published by Dr. Coonse and his co-workers is listed here rather than with our Brigham list of publications, since he is not properly a member of our staff but merely working in the Laboratory of Surgical Research as a matter of courtesy.

COONSE, G. KENNETH and AUFRANC, OTTO ELMO: The Relation of the Intrapleural Pressure to the Mechanics of the Circulation. *Am. Heart J.*, 9, 347-362, Feb., 1934.

Dr. Shambaugh's major studies concerning the production of angina pectoris by experimental methods are evidence of the Laboratory activity this winter. At the same time, Dr. Jacob Fine of the surgical staff of the Beth Israel Hospital has carried on investigation concerning pulmonary atelectasis. Work such as that prosecuted by Drs. Fine and Coonse, who are not members of the Peter Bent Brigham surgical group, are financed separately.

In the Hospital Laboratory, previously occupied by Dr. Cushing's very productive neurological group of workers, there has been a considerable change. Dr. Eisenhardt and Miss Thing have been moved into the smaller laboratory and there they have set up a *brain tumor registry*. It was one of Dr. Cushing's particular desires that the great group of nervous-system tumors collected by him should be continued as an active educational unit. For this purpose the University has made a certain financial grant and it is the eventual intention to transfer this collection of neurological tumors, with

a staff to look after them, to the Warren Museum. It is Dr. Cushing's hope that rare and unusual tumors can be sent to this central registry from any part of the country and there studied in relation to other similar tumors in the collection. The Harvey Cushing Society of Neurological Surgeons have been interested in this matter and have made a gift toward its maintenance. Until quarters can be established for this registry in the Warren Museum, we have been most happy to have the registry continue in our Surgical Laboratory.

The major Surgical Laboratory, beneath the operating room, has been made over largely into a biochemical unit, though part of it has been set aside for skin temperature determinations. This change was due to our interest in studying completely people who have been submitted to total thyroidectomy for intractable heart disease. This work began in the Brigham Hospital under the stimulation of Dr. Samuel A. Levine, and was already in existence in active form before I had returned to Boston. The clinical observations of Dr. Levine, coupled with the important studies of Dr. Herrman Blumgart of the Beth Israel Hospital into the mechanism controlling the rate of blood flow, led first to subtotal and then to total thyroidectomy in various forms of decompensated heart disease. The reasons for this have been fully published long before this, but it may be said that Dr. Blumgart showed that the rate of blood flow was largely controlled by the metabolic demands. This led to the assumption that lowering the metabolic demands, *i.e.*, the creation of artificial myxedema by surgery, might, in people whose cardiac mechanism was unable to maintain a normal rate of flow, give rise to a situation where the crippled heart could supply a circulation adequate for the lowered demand

and thus bring about compensation. The fact that this is true seems now definitely established. Once the crippled heart was treated by this method it was only natural that people suffering from angina pectoris should also be submitted to the same treatment. In this condition a greater measure of relief resulted than had occurred following other surgical methods. Moreover, the promptness of the relief was spectacular and justifies serious investigation. By this time some forty-five patients have been submitted to total thyroidectomy in the Brigham Hospital, the greater majority for angina pectoris. It was essential, for a full appreciation of what changes this radical operation might give rise to, that the patient should be critically studied from every point of view before and after the surgical operation. This meant (1) the setting up of a satisfactory room for the study of skin temperatures since both the circulation and the sympathetic nervous system can be somewhat appraised by this method, and (2) also the establishment of an experimental laboratory for carrying out the large amount of blood chemical analyses essential to the proper appreciation of these patients. This is merely an example of how the surgeon may at any time, through necessity and interest in his work, have to turn to unusual tools for the elucidation of his problem.

This Laboratory has been put under the charge of the Harvey Cushing Fellow. We have been most fortunate in having as an assistant to the Fellow for this last six months Dr. Leslie H. Van Raalte, a graduate of the Harvard Medical School in 1932, who had already had a short internship at the New London Hospital. In addition to assisting in the chemical analyses in the Laboratory and in the accurate studies on the skin tem-

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peratures, he has conducted occasional statistical and pathological studies concerning diabetes, myxedema, and the various cardiac disorders. His addition to our Laboratory staff has been one of great value and personal satisfaction to us.

PUBLICATIONS FOR 1933. The appended list of publications needs some explanation, for it contains certain papers not in conformity with previous lists. For example, two papers by Dr. Frank Glenn which did not turn up in time for the 1932 Report are listed this year. The same may be said for one of the articles by Dr. Leroy M. S. Miner, and this brings up the fact that consultants on our staff chiefly attached to the surgical service, as Dr. Frank R. Ober, Dr. A. H. Brewster, and Dr. Miner, have allowed us to give notice of their publications in our list. I have already made mention that there is a publication listed here which was written when its author, Dr. A. F. Jonas, Jr., was a clinical clerk serving at this Hospital. Since much of his stimulation came from our staff it seemed proper to include his publication in our list.

I have never known quite what to do with publications appearing during a man's tour of duty on our staff, the work for which was largely done elsewhere, and also papers written by men while on our staff but not appearing until perhaps a year later when the authors have left the service. Such papers are represented on this year's list by the work of Dr. Ernest F. Bright and Dr. Robert L. Patterson, and that of Dr. Boris M. Fried, Dr. Carl F. List, Dr. William Mahoney, Dr. Richard Meagher, Dr. Eric Oldberg, and Dr. Benno Schlesinger. It seems to be the custom in most places

for such work to be listed and I know the junior members of the staff may find satisfaction in such listing.

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STATISTICAL. The study of statistics is never a very pleasant matter and to surgeons who happen to be of artistic dispositions it is apt to be quickly set aside. At the same time, operative mortality, the diversification of the material on a service, dispensary attendance, which is the largest feeder to the Hospital, the percentage of autopsies and similar matters may give to those directing any hospital service vitally important data. For the reason that certain of such data appears

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valuable to us, we continue to publish it, knowing that they will interest at least a large fragment of our graduates.

Table A represents the general Hospital surgical statistics. In spite of a year of depression, or perhaps indeed because of it, though such matters depend more upon the activity of the Resident Surgeon than anything else, the total discharges are somewhat increased. There was a slight drop in the general mortality and a large increase in the diagnoses. This latter matter is explained because with the advent of the new system

TABLE A
HOSPITAL STATISTICS—DEPARTMENT OF SURGERY
1913-1933

YEAR	Total Discharges	Deaths	General mortality %	Diagnoses	Excess % of Diagnoses	Patients operated upon	Case % operated upon	Operations recorded	Post-operative deaths	Case mortality %	Operative mortality %
1913	690	35	5.00	690	0	477	69.1	693	29	6.1	4.2
1914	1474	83	5.63	1474	0	992	67.3	1361	61	6.1	4.5
1915	1869	89	4.76	2366	26.5	1328	71.1	1526	72	5.4	4.7
1916	2014	93	4.61	2348	16.6	1422	70.6	1632	68	4.8	4.1
1917	2021	74	3.66	2533	25.3	1457	72.1	1639	54	3.7	3.2
1918	1856	71	3.82	2315	24.7	1304	70.2	1474	61	4.7	4.1
1919	2123	102	4.80	2659	25.2	1411	66.5	1563	79	5.6	5.1
1920	2090	91	4.35	2604	24.5	1399	66.9	1602	69	4.9	4.3
1921	2195	107	4.87	2640	20.2	1405	64.0	1591	86	6.1	5.3
1922	2274	110	4.83	2692	18.3	1517	66.7	1552	71	4.7	4.5
1923	2397	135	5.62	3084	28.7	1646	68.7	1713	81	4.9	4.7
1924	2508	144	5.74	3462	38.0	1783	71.1	1843	75	4.2	4.1
1925	2578	134	5.19	3629	40.7	1667	64.7	1762	72	4.3	4.1
1926	2415	143	5.92	3565	47.6	1663	68.9	1789	87	5.2	4.8
1927	2474	135	5.95	3715	50.4	1735	70.1	1858	79	4.5	4.3
1928	2577	135	5.24	3737	45.0	1750	67.9	1930	89	5.1	4.2
1929	2574	136	5.28	3822	48.5	1708	66.3	1874	80	4.7	4.3
1930	2388	109	4.14	3763	57.6	1714	71.8	1892	71	4.1	3.2
1931	2375	125	5.68	4007	68.7	1670	70.3	1849	68	4.1	3.7
1932	2407	129	5.36	4415	83.4	1723	71.5	2337	84	4.8	3.6
1933	2636	133	5.04	5449	106.7	1848	70.1	2132	103	5.5	4.8

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of recording diagnoses we have chosen to include on our front sheet not only the principal disease from which the patient suffers but any other attending disorder of real magnitude. Thus a patient who has cholelithiasis, but also diabetes mellitus, should, it appears to us, have both diagnoses recorded in order that the student of the future may have access to a large amount of material through the cards of the Record Room, rather than having to pore over individual records.

A slight decrease in the number of operations recorded is due to the fact that perhaps we have been a little more strict in what we have called a dressing, since this list does not include cystoscopies, dressings, pyelograms and the application of simple casts. The number of post-operative deaths is high and the percentage considerably increased. The operative mortality percentage has directed us to a case study of this matter and the higher mortality figures in various fields are found in the fields of gastric and duodenal surgery, thyroid surgery, and neurological surgery. And it is of interest that over 30% of the fatalities occurred in people who were the seat of malignant disease. It may be that this year we were presented with an unusual number of serious risk people as, for example, in the field of peptic ulcer, where two patients over seventy years of age, long the seat of severe repeated hemorrhage, are to be found. With hindsight we may judge such patients should not have been accepted for surgery. There are also two cases of unusual internal strangulated hernias, raising our mortality in the hernia group to 4.1%, a field where the mortality is usually low. Again, in the thyroid group we have been tackling the worst possible forms of risk with our attempts

to treat cardiac failure with total thyroidectomy. Many of these patients have been in bed for months, have been incapacitated for years, and a number of them have had previous attacks of coronary closure. Although there have been only three deaths in the group of forty-five people submitted to total thyroidectomy, this, of course, adds to our mortality. Fortunately the mortality is largely in the hands of the senior members, which is as it should be. I always have a great horror of the house staff assuming mortalities, largely because it may make them think that deaths are to be expected in surgery, whereas they should acquire the instinctive feeling that every surgical death is a catastrophe. Only by such a point of view can the young surgeon be properly educated to his high responsibilities.

Table B. This table represents to me the most interesting phase of our statistical studies, since it allows us to compare from year to year the tendency of our work to enlarge or decrease in the various special fields in which the staff may be interested.

The major discrepancy this year is, of course, the falling off in surgery of the central nervous system, though from our point of view enough of this work still comes to the Hospital to satisfy our teaching obligations. The figures under the thyroid division are increased due to the fact that almost one-half of the thyroidectomy cases listed have been total thyroidectomies performed by us in our study of the effect of this procedure in patients with cardiac decompensation or angina pectoris. Surgery of the breast has been listed separately this year since it forms a special division of which we would like to keep a tally. Surgery within the abdomen has changed but little and the chief change upward is found in the realm of gynecology. This per-

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haps represents a greatly increased activity in our O. D. D. where a special Gynecological Clinic has resulted in a greatly increased attendance in this field of work.

TABLE B

STATISTICAL STUDY OF VARIETY OF CLINICAL MATERIAL

Based on Operations Performed

	1932	1933
Neurological:		
Central Nervous Sytem.....Major	322	76
Minor	21	80
Peripheral Nervous System.....	8	20
Thyroid	43	75*
Thorax		
Major	81	54
Minor	15	20
Bronchoscopy	..	8
Breast .....	..	47
Circulatory System:		
Heart and Pericardium.....	3	1
Blood Vessels	37	23
Abdomen:		
Stomach	53	38
Gall-bladder	86	99
Appendix	162	155
Small Intestine	11	11
Large Intestine		
Major	57	69
Minor	58	107
Hernia	142	128
Bones and Joints:		
Fractures	25	10
Other Diseases	103	76
Plasters .....	..	66
Gynecology		
Major	198	193
Minor	87	167
Radium	18	35
Genito-urinary	197	162
Cystoscopy	525	468
I. V. Pyelograms	22	58
Miscellaneous Major Operations.....	62	64
Minor Operations:		
Nose, Ear, Throat	104	145
Dental	138	102
Transfusions	70	28
Miscellaneous	164	210
Total	3,599	2,795

* Includes 30 total thyroidectomies for heart disease.

PETER BENT BRIGHAM HOSPITAL

I still wish to keep nose, ear and throat operations and dental operations listed separately in order that we may see how these specialties are developing and whether, particularly in relation to nose, ear and throat, the time is not soon approaching when a special division may be necessary in the Hospital to handle this interesting specialty.

The total list for 1933 shows a considerable dropping off against the previous year, perhaps partly due to a stricter listing of minor operations as such. It is a necessary concomitant to a shift in direction, for we all keep score cards differently and until several years have gone by comparisons with preceding years are not of striking value.

Table C represents a general fall in the percentage of autopsies secured. For this we are deeply regretful and can only make further attempts to improve this.

TABLE C

STATISTICAL TABLE WITH NUMBER OF DEATHS AND PERCENTAGE OF AUTOPSIES OBTAINED IN THE DEPARTMENT OF SURGERY

	Deaths	Autopsies	
		Number	Percentage
1923	120	63	52.5
1924	131	95	72.5
1925	113	77	68.1
1926	127	77	60.6
1927	119	78	65.5
1928	128	83	64.8
1929	129	90	69.7
1930	96	76	79.2
1931	109	90	82.6
1932	117	84	71.7
1933	121	77	63.6
Totals	1,310	890	67.9

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Table D. The O. D. D. statistics are of importance to us since this is the chief feeder to our surgical wards. That there is a continued growth here is satisfactory, though one cannot rely too much on these figures since the financial conditions in our country have driven people to hospital dispensaries and away from the ex-

TABLE D

O. D. D. STATISTICS; DEPARTMENT OF SURGERY—1925-1933

	General Surgery			Genito-urinary		
	Total	Old	New	Total	Old	New
1925.....	24,913	21,279	3,634	5,158	4,893	265
1926.....	23,062	19,931	3,131	3,671	3,501	170
1927.....	24,025	20,151	3,874	4,334	4,119	215
1928.....	20,989	17,050	3,939	4,072	3,851	221
1929.....	27,140	22,957	4,183	4,338	4,110	228
1930.....	28,002	23,824	4,178	5,028	4,827	201
1931.....	27,085	22,873	4,212	4,124	3,946	178
1932.....	30,408	25,946	4,462	5,168	5,006	162
1933.....	32,808	28,197	4,611	5,316	5,046	270

pense of utilizing their personal private physicians. Our figures show a steady increase in the new cases attending the O. D. D. for general surgery and also the highest figure in ten years in the Genito-urinary O. D. D. Perhaps our attempt to make favorable contacts with the physicians surrounding us has played a rôle in this increase. I should feel happier if I could prove this, since I think it is highly important that the Hospital maintain a happy relationship with their surrounding professional colleagues. As a part of this contact we have made particular efforts to return to the private practitioners, referring cases to the Hospital, all such cases rather than carry them in our own O. D. D. Dr. Howland has been kind enough to check upon the result of our efforts along this line and has

told me that in some months practically every patient referred by a private physician has found his way back to the physician rather than being caught in the routine discharge of returning to our O. D. D.

As the depression begins to leave us, and any Farmer's Almanack is as good for this as Washington news, we must begin again to visualize the growth of the Hospital—not necessarily growth in size, but rather continued vigor and progress. From what we have this year written about the O. D. D. it must be apparent that some physical change there is soon necessary. The O. D. D. needs an opening directly to Huntington Avenue, a larger Record Room, and more space for the Social Service Department, offices for representatives of the medical and surgical services, a better physiotherapy department, better equipment for the special clinics, and more space in general, particularly for teaching of patient-classes, as well as for students. All this has long been visualized and to such changes we will devote our energies.

In the Department of Surgery a reconstruction of the operation rooms will soon be essential. Some way must be found for getting visiting doctors into the stands without their going through the operating rooms; the sterilizing equipment for instruments should be next to the operating rooms, doing away with the serious danger now existing which necessitates the carrying of instruments when sterilized across the busy operating room corridor which is utilized for all purposes; and, finally, the general sterilizing activities for the Hospital should be removed from the operating room proper. Such changes are only in line with greater protection to our patients and need little argument to justify their accomplishment.

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The cheerfulness and devotion to their duties which has seemed to imbue all workers in the Hospital, in spite of hardships due in part to the financial depression, is the best evidence of the high regard in which all of us must hold our administration. In spite of serious financial curtailments all essential functions of the Hospital have gone on unaltered and although belts may have been tightened in scientific as well as more practical ways, no visitor would ever have noticed it. Our warmest thanks, therefore, go to all who have served this Hospital during the trying period of the last three years.

ELLIOTT C. CUTLER,
Surgeon-in-Chief.

DECEMBER 31, 1933.

Summary of Statistics

JANUARY 1, 1933 TO JANUARY 1, 1934

Total number of surgical admissions in 1933.....	2,643	
Total number of cases remaining in wards, Jan. 1, 1933....	84	
	———	2,727
Total number of surgical cases discharged or transferred...	2,503	
Total number of deaths	133	
(Post-operative 103—Non-operative 30—total 133)		
	———	
	2,636	
Total number of cases remaining in wards, Jan. 1, 1934....	91	
	———	2,727

Report of the Physician-in-Chief

THE Annual Report for 1932 ended with a note of pessimism. The year had been one of depression. During 1933 this pessimism of the Annual Report of 1932 has been fully justified. Economic conditions have grown worse. More and more of our patients have been unable to pay hospital charges. Income from our invested funds has greatly decreased. Governmental efforts toward regaining prosperity during the year have made no demonstrable improvement; in fact, so far, conditions have been made worse rather than better, for the hospital has had to meet increased cost of supplies out of decreased income. Great economies have been made in operating costs, but it has been impossible to prevent a large deficit. Work has gone on and good work has been done, but many needed repairs, reconstructions and improvements of necessity have been impossible. Again a deficit in income has been made up by drawing on our capital; this has been necessary, but obviously the result is a lessened income for all future years, since a hospital makes no profit by which previous deficits thus met may be repaid to endowment. The 1933 deficit happily has been lessened by funds derived from the Boston Emergency Drive.

These economic conditions present a great problem for all types of private philanthropic institutions. How are they to be met? Must there be a reorganization of all private charities? These are serious problems confronting us. We can only prepare, as far as is possible, to carry on under changed conditions, if such develop, and this seems likely. As one is able to judge of present governmental policies, wealth is to be distributed and

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great fortunes discouraged, if not prevented. Yet endowed hospitals could never have been developed but for the gifts of the wealthy. If no such gifts can be expected in the future, new methods of financing hospitals such as the Peter Bent Brigham must be found. Various plans have been discussed; none so far seem very feasible. Is it a probability that endowed hospitals will become governmentally maintained and controlled or will they be discontinued? We can only hope that neither eventuality will develop, and that gradually economic conditions will make possible a continued existence for the Peter Bent Brigham Hospital as in the past and with the carrying out of plans of development formulated prior to the beginning of the period of depression.

The reduction in salaries and wages made in 1932 by vote of the corporation has been continued in force during 1933 and in this way a sum totalling approximately \$30,000.00 was saved the institution during the current year. This should be recognized as the contribution of the personnel of the Peter Bent Brigham Hospital to help the needs of the community and might well be credited by the Boston Emergency Drive to these people in addition to such other contributions as they made directly in 1933. At some future date when, and if, economic conditions improve, steps should be taken to restore, as far as possible, these necessitous contributions dating through the period of the reduction in salaries and wages, particularly, as in many instances, these reductions were from salaries which the corporation by vote had obligated themselves to pay during the continuance of satisfactory service without any proviso for reduction. The cheerfulness with which these reductions in wages and salaries were accepted is

all the more reason for such an attitude. The increase that is taking place in cost of living will add to the burden brought about by reduction in wages and salaries, and if it continues, will demand an early return to the level of wages and salaries existing prior to the reduction in 1932 referred to above; this will be only justice to the hospital personnel.

'REUNION. To turn our thoughts into more pleasant channels, memories of the reunion of 1933 well will serve. Past and present nurses, house officers, residents and assistant residents, member of the medical, surgical, pathological and administrative staffs for three days, May 4, 5 and 6, gathered in surprisingly large numbers from near and far; hard times were forgotten; all enjoyed themselves as a large family returned to the old homestead. Each morning until 11 o'clock the routine work of the Hospital was open for inspection and former Brighamites could contrast this day with their own, critically or uncritically, as the case might be. From 11 to 1 and from 2:30 to 4:30 each day a splendid scientific program (for this see another page in this volume) was carried out with precision; this consisted of excellent presentations of work done by those who had left the Brigham fold and by home talent. Each day all had luncheon in the hospital dining room as guests of our trustees; to Miss McDonald, our dietitian, every one gave enthusiastic praise for the delicious food and its efficient service. Tea on the lawn by the Nurses Alumnae Association filled the afternoons. One evening after dinner at the Hospital all were entertained by a lantern slide exhibit of early photographs arranged by the nurses and by a delightful musical comedy prepared and rendered by the Resident Staff. In the lat-

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ter the foibles of the older staff were portrayed in a way to bring pleasure to all, including those whose idiosyncrasies were portrayed. Even that imaginary fly which for so long has been tickling the Physician-in-Chief's head appeared in corporeal form; this is but an index of the perfection of "the play". On another evening the gymnasium at Vanderbilt Hall was filled for dinner followed by presentations to the Brigham Hospital of the portrait of Dr. Cushing, former Surgeon-in-Chief, and to Harvard University of a portrait of the present Physician-in-Chief on the occasion of his completion of twenty-five years service as Hersey Professor of the Theory and Practice of Physic in the Medical School. After this there was a dance at Longwood Towers. At the end of the last afternoon's program Miss Hall, Superintendent of Nurses, was presented with an old Sheffield plate teapot as a token of the esteem for her felt by all of the Peter Bent Brigham Hospital family.

These reunions, of which this is the third, mean much to the Hospital. That so many returned, often from great distances, to token their continued interest in and affection for their hospital is a wonderful stimulus to those of the present staff. Those that have worked with us in their earlier days form now a large group scattered widely who are doing splendid work in their various fields of endeavor; in them we take very great pride. These reunions are to be repeated at five-year intervals; the next will be in 1938.

INVESTIGATION. As has often been emphasized in different annual reports investigation is important to the best functioning of the Hospital in the care of patients; it is the vivifying influence that prevents

stagnation and decrease in efficiency for the staff; investigation in a hospital calls for the most careful observation of patients, and patients profit thereby. To the lay mind investigation frequently suggests the idea that patients are being experimented on and not infrequently are harmed; nothing could be further from the truth; investigation demands the keenest, most critical sort of study of patients, and to be successful, if for no other reason, it is essential that patients are in no wise harmed; since the opening of the Hospital it has been the rule that patients must understand and be entirely willing to cooperate in whatever is done, and nothing is ever done which is believed likely to injure the patient in any way. The willing cooperation of patients is an evidence of their confidence in the staff; it has always been given freely.

During 1933 there has been carried on a considerable amount of investigation, as will be seen from the list of 1933 publications appearing on a subsequent page of this report and in the list to appear next year, for often work done in one year does not appear in print until the next year. In this year there has been very much interest at the Peter Bent Brigham Hospital in total thyroidectomy as a means of therapy in cardiac disease, the work stimulated and carried on by Dr. Levine, who with his associates in cooperation with Dr. Cutler and his assistants of the surgical service has made important observations at the Brigham, while Dr. Blumgart, earlier a house officer with us, has been conducting studies of the same type at the Beth Israel Hospital.

Myxedema long has been recognized as a condition in which the body is largely in a vegetative phase with lowered metabolism and decreased physical activity and in which symptoms of cardiac failure and particularly

anginal symptoms may follow too vigorous treatment with thyroid extract. Treatment of cardiac disease always has had as a very important factor the insistence on rest. Complete removal of the thyroid gland will result in myxedema, *i.e.*, a vegetative phase of human activity, in which there would be a maximum of rest. The application of such an induced maximal rest to cardiac patients, failing to respond satisfactorily to other forms of therapy, is what has been carried out by total thyroidectomy.

It is too early to attempt as yet any full evaluation of this method of treatment, but certain opinions are justified. First, it has become evident that the removal of all thyroid tissue from patients with severe cardiac disease surgically is possible without any more risk than is incident to most procedures of major surgery; second, it has been found that immediately after complete removal of the thyroid, as a rule, anginal pain, previously present, does not recur; third, maximal rest, as had been anticipated from our knowledge of myxedema, results from thyroid ablation and decreases signs of congestive heart failure where these have been present. In total thyroidectomy operations in some patients the parathyroids are removed or injured with resultant tetany; this disturbance has not been difficult to control. Myxedema, though producing a vegetative phase of body mechanism, is not a desirable condition, for it is accompanied by unpleasant symptoms and disturbing results, and so we regard it as a disease requiring treatment, which treatment must be maintained through life. Treatment by feeding thyroid gland substance to restore the deficient thyroid principles is only fairly satisfactory; it is rare to see complete restoration to normal in the naturally myxedematous patient from

such therapy; in some patients results of thyroid dosage definitely are unsatisfactory; whether artificially produced myxedema will resemble natural myxedema in these respects will not be known until more time has elapsed.

In artificially induced myxedema treatment will be limited to that basal metabolic level consistent with the limitations imposed by the existent cardiac deficiency. Consequently results from the treatment of congestive cardiac failure and angina by thyroid ablation will depend upon the feasible balance of two evils in type opposed to each other. This puts a limit on the results from the point of view of comfort and body efficiency; complete myxedema and cardiac dysfunction are both evils; too much of either is intolerable; an optimum admixture is to be sought; if attainable, the patient is improved, not rendered normal, but only so long as a naturally progressing heart lesion remains within certain limits. Results so far offer no evidence that thyroid ablation influences the underlying organic cardiac lesion, and it is obvious that the period of relief from symptoms of congestive failure is going to be but a limited one, the length depending on the stage of congestive failure at which the patient should be advised to undergo the major surgical operation of total thyroidectomy.

Natural myxedema develops slowly as a result of progressing atrophy of the thyroid and symptoms appear gradually; it may be that acute myxedema from total thyroidectomy will gradually, as time goes on, develop more and more of the discomforts of naturally developing myxedema which are not present shortly after thyroid ablation. The patient may be no better off eventually with the discomforts of uncontrollable

myxedema than he was with uncontrollable congestive heart failure and he may end up having both disabilities, but he will have a period of greatly increased comfort. These patients, as we have seen already, have a very narrow zone between the thyroid dosage that is improving their myxedema condition and the thyroid dosage that will precipitate acute congestive heart failure. All of these factors make it probable that total thyroidectomy will have only a limited field in treating congestive heart failure and that the period of improved condition for most patients will be in terms of months, and those not many.

With regard to anginal pain the outlook seems better. There is suggestive evidence that the effect on anginal pain may be other than the effect of decreased metabolic activity; if so, the favorable influence may be expected to persist longer than the effect on congestive heart failure. However, total thyroidectomy does not stop anginal pain in every patient, and probably does not decrease the probability of coronary occlusion. The satisfactory treatment of naturally acquired myxedema often is limited by the anginal attacks produced by thyroid gland dosage. This may turn out to be the case, too, with artificially induced myxedema in some patients as time elapses, with the result that operation has caused a myxedema in many ways intolerable, which can not be much relieved, because, when adequate thyroid dosage is reached, the patient has, as a result, the severe attacks of angina pectoris for which he was primarily treated by thyroid removal. Just how these factors will work out in various patients will determine the worthwhileness of total thyroidectomy in the treatment of angina pectoris. Present experience lacks the necessary time element to justify as yet a definite opin-

ion on the real value of this new therapeutic procedure in angina pectoris. It would seem that here too the field of applicability will not be a wide one.

The study of these patients following total thyroidectomy has opened up many problems for investigation and already has resulted in important new knowledge. In this sense the procedure has been worthwhile. Also patients thus treated have been symptomatically much better even though for a limited time; they have expressed great enthusiasm for the results; this, too, is very worthwhile.

PUBLICATIONS FOR 1933. During 1933 certain lines of investigation have been pursued by the members of the Staff, as shown by the following list of publications. Some of these represent work actually done in the preceding year, but, according to our custom, are noted in the Annual Report only after their completion and publication, thereby avoiding duplication in being noted once when the work is under way and the second time when completed and published.

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- What is Nephrosis? *N. Eng. J. Med.*, 208, 129, 1933.
- Diagnosis of Chronic Nonvalvular Cardiac Disease (Chronic Myocarditis). *N. Eng. J. Med.*, 208, 574, 1933.
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- Some Undesirable Tendencies in Using an Etiological Classification of Heart Disease. *N. Eng. J. Med.*, 209, 444, 1933.
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- A Glimpse of the Medical School Library. Harvard Alumni Bulletin, January 20, 1933.
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- BLOTNER, HARRY. The Treatment of Diabetes. Med. Clin. N. Am., 16, 907, 1933.
- Observations on the Effect of Insulin in Thin Persons. J. A. M. A., 100, 88, 1933.

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- EPPINGER, EUGENE C. and MIDELFART, PETER A. H. Stenosis of the Isthmus (Coarctation) of the Aorta. A Report of Three Cases with Remarks upon the Clinical Aspects. *Am. J. Med. Sci.*, 185, 528, 1933.
- ESCAMILLA, ROBERTO F. Report of a Case of Paroxysmal Ventricular Fibrillation in Relation to Quinidine Therapy. *Am. Heart J.*, 8, 850, 1933.
- FLYNN, JOHN M. An Argument for High Carbohydrate Diets in the Treatment of Diabetes. *Trans. of the Am. Therapeutic Society*, Vol. 33, 1933.
- FREEMAN, A. R. and LEVINE, SAMUEL A. The Clinical Significance of the Systolic Murmur. A Study of 1,000 Consecutive "Non-cardiac" Cases. *Ann. Int. Med.*, 6, 1371, 1933.
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WOSIKA, PAUL H. and SOSMAN, MERRILL C. Calcification in Aortic and Mitral Valves: With a Report of Twenty-three Cases. Am. J. Roent. & Radium Therapy, 30, 328, 1933.

PHYSICIAN-IN-CHIEF, *pro tempore*. In 1933 Dr. Charles A. Elliott of Chicago came to us as Physician-in-Chief, *pro tempore*. Professor of Medicine at Northwestern University, attending physician to Passavant Memorial Hospital, long a practitioner of medicine, Dr. Elliott represents that combination of training and experience which brings practical wisdom to the high calling of clinical medicine and creates a knowledge of disease ever at hand to be used in the demonstration and discussion of patients. Vigorous but retiringly modest, a delightful personality at close range, both resident and visiting staff greatly enjoyed his sojourn among us and profited from the wisdom in medicine which emanated from him as he walked our wards and lived our life at the Peter Bent Brigham Hospital.

REPORT OF THE PHYSICIAN-IN-CHIEF

CHANGES IN PERSONNEL. Near the end of 1932 Dr. William T. Salter was appointed Junior Associate in Medicine, an appointment through my oversight not noted in the 1932 report. We are glad to have him on the staff. In 1933 Dr. Harry H. Blotner was promoted to the position of Associate in Medicine in recognition of his faithful and efficient service dating from 1925 when he came as Assistant Resident Physician.

During the year Dr. Richard G. Hahn ended his very effective service as Resident Physician to become Fellow in Pathology at the Cornell University Medical College. Quietly things ran under him; with good judgement he handled the many problems that we put on the Resident Physician for solution; his clinical work was well done. He has been succeeded by Dr. Eugene C. Eppinger, a graduate of Williams College, a Harvard M.D. and a former house officer and Assistant Resident Physician at the Peter Bent Brigham Hospital.

In 1933 Paul H. Wosika and Edward A. Bartram resigned as Assistant Resident Physicians, the former to continue with us to study treatment of peptic ulcer on a fellowship granted by the Upjohn Company, the latter to enter practice at London, Ontario, Canada. The new Assistant Residents are Dr. Maurice A. Schnitker, M.D. of the University of Michigan, formerly Medical House Officer at the Peter Bent Brigham Hospital, Dr. Edward A. Cannady, M.D. of Washington University, who comes to us from Barnes Hospital, St. Louis and Dr. P. H. Drewry, Jr., M.D. of Johns Hopkins University, who comes to us from Baltimore City Hospital.

As Medical House Officers the following men completed their service and began on other work as follows:

Dr. Roberto F. Escamilla to become Assistant Resident Physician at the University of California Hospital, San Francisco, Dr. Milton H. Clifford to become Assistant Resident Physician at the Massachusetts General Hospital, Dr. Robert E. Glendy to become first Assistant Physician at the Middlesex County Sanatorium and later Assistant Resident Physician at the Massachusetts General Hospital, Dr. Maurice A. Schnitker to become Assistant Resident Physician at the Peter Bent Brigham Hospital, Dr. Charles F. Walcott to continue medical study at the Johns Hopkins Hospital, Baltimore, Dr. Christian F. Midelfart to become House Officer at the New York Lying-In Hospital, Dr. William R. Hallaran to become Assistant Resident in Medicine at the Lakeside Hospital, Cleveland and Drs. Eugene A. Stead, Jr. and John G. Gibson to become Research Fellows at Harvard to carry on experimental studies in the Laboratory of the Department of Medicine.

REPORT OF DR. FITZ ON THE OUT-DOOR DEPARTMENT. I know of nothing very startling to report regarding the activities of the Medical Out-Door Department during the past year. The appointment system continues to function well and has abundantly demonstrated its usefulness. The so-called Teaching Clinic has also established its value. It has been interesting to watch the development of the third and fourth year medical students who have been assigned work there. Such students have quarters admirably equipped for the office practice of medicine and they soon acquire considerable aptitude in the recognition of disease and in the art of managing people. Certainly the teaching facilities of the Out-Door Department are much appreciated, well utilized and help the Hospital's work.

REPORT OF THE PHYSICIAN-IN-CHIEF

The various special clinics where patients are treated in groups have continued to function satisfactorily. Dr. F. W. Marlow, Jr., Associate in Medicine, has assumed responsibility for directing the Luetic Clinic. I am confident that this important clinic will acquire great momentum under his guidance. Dr. Levine from the Cardiac Clinic states that our heart patients have suffered a loss in the resignation of Miss Katherine Homans. As he says, we all owe her a great debt of gratitude for the untiring and unselfish assistance which she has rendered in the Social Service work of the Hospital. She is one of the earliest volunteer Social Service workers to be attached to a cardiac clinic in this country, and for many years brought a most intelligent and wholesome spirit to her patients.

The physicians in charge of the other therapeutic clinics report no striking news or changes. Each clinic has had a busy year, has done efficient and helpful work for our patients and has expanded almost to the limit of its capacity.

I often wish that I were gifted with greater powers of foresight. There are many problems to be solved in the near future. One of the most important is a determination of policy regarding the manner in which the course of the Hospital is to be guided most wisely.

Twenty-one years ago I began to work in the Out-Door Department. The Clinic was small then and our quarters seemed large enough. Now we are vastly overcrowded. One sub-department is continually in the way of another. On the average two hundred patients are seen each day and about twenty-five new ones are examined in the general medical and surgical divisions. New special clinics tend to sprout up and there is always demand for more. Dr. Wilhelm has assem-

bled some very impressive figures which illustrate the common causes for which patients are turned away. According to these figures there is a definite demand from patients that we establish in the Hospital eye, skin and ear clinics in addition to what we already have. And no doubt were such special clinics established, demands for new efforts would soon arise.

The present Out-Door Department building has nearly reached the saturation point of its accommodative powers. We soon must have a new building or a reform in the manner in which we use the present one. Boston already has enough large out-patient departments for a city of its size. Ours should remain small, intimate and individual; I favor curtailment of effort rather than expansion.

In closing these remarks I must again thank certain standbys for their cooperation in making the Out-Patient Department run so smoothly; Miss Alice Cheney and her well-organized Social Service Department; Miss Rachel Adams who has proved a most efficient administrator; Miss Frances McGuire who works in the laboratory and in addition, with unfailing cheerfulness, drills platoon after platoon of students in laboratory technique and manners; and finally, nurses, house-officers, visiting physicians and everyone else who contribute their mite toward making the Hospital's personality so gracious that each year more sick people knock at our doors wishing to be mothered and nursed here.

This is the twentieth Annual Report that I have written as Physician-in-Chief. Over and over again I have ended the report with an expression of great gratitude to the many individuals who have made both possible

REPORT OF THE PHYSICIAN-IN-CHIEF

and pleasant the work of the Medical Service; this year I reiterate these sentiments.

HENRY A. CHRISTIAN,
Physician-in-Chief.

DECEMBER 31, 1933.

Summary of Medical Statistics

JANUARY 1, 1933 TO JANUARY 1, 1934

Total number of admissions in 1933	1,893	
Total number of medical cases remaining in the wards, January 1, 1933.....	75	
	<hr/>	1,968
Total number medical readmissions discharged in 1933	208	
Total number of medical new cases discharged in 1933	1,683	
	<hr/>	1,891
Total number of medical cases remaining in the wards, January 1, 1934	77	
	<hr/>	1,968
Results on medical cases discharged in 1933 were as follows:		
Total number discharged well	56	
Total number discharged improved.....	1,033	
Total number discharged unimproved.....	225	
Total number discharged untreated	235	
Total number transferred to Surgical Service	199	
Total number dead	143	
	<hr/>	1,891
Total number of medical cases remaining in the wards, January 1, 1934	77	
	<hr/>	1,968

Visiting Physicians and Surgeons *Pro Tempore*

SIR CHARLES BALLANCE

K.C.M.G., C.B.; Consulting Surgeon to British Army, 1914-19; Col., R.A.M.C.; Consulting Surgeon to St. Thomas Hospital and to the National Hospital for Paralysis and Epilepsy; *Surgeon-in-chief pro tem.*, P. B. B. H., October 15 to October 25, 1928.

DR. LEWELLYS F. BARKER

M.B., Univ. of Toronto, 1890; M.D. (Hon.) Univ. of Toronto, 1905; Queen's, 1908; LL.D., McGill, 1911; Emeritus Professor of Medicine, Johns Hopkins University and Visiting Physician, Johns Hopkins Hospital; *Physician-in-chief pro tem.*, P. B. B. H., April 21 to April 27, 1931.

DR. FRANK BILLINGS

M.D., Northwestern Univ., 1881; M.S., *ibid.*, 1890; Sc.D., Harvard, 1915; Professor of Medicine, Northwestern Univ., 1891-98; Professor of Medicine, Rush Medical College, 1898-1905; Professor of Medicine, Univ. of Chicago, 1905-24; *Physician-in-chief pro tem.*, P. B. B. H., May 15 to May 20, 1916. Died September 20, 1932.

DR. LEWIS A. CONNER

Ph.B., Yale Univ., 1887; M.D., Columbia Univ., 1890; Physician, New York Hospital, 1905; Professor Clinical Medicine, Cornell Univ. Med. School, 1905-16; Professor of Medicine, *ibid.*, 1916; *Physician-in-chief pro tem.*, P. B. B. H., April 8 to April 15, 1923.

DR. CHARLES A. ELLIOTT

B.S., Univ. of Nebraska, 1895; M.D., Northwestern, 1898; Professor of Medicine, *ibid.*; Attending Physician, Passavant Memorial Hospital, Chicago; *Physician-in-chief pro tem.*, P. B. B. H., April 16 to April 22, 1933.

PROF. OTFRID FOERSTER

Professor of Neurology, Univ. of Breslau; *Surgeon-in-chief pro tem.*, P. B. B. H., October 1 to October 14, 1930.

MR. GEORGE E. GASK

Graduate of St. Bartholomew's Hospital, London, England; Consulting Surgeon, B. E. F., receiving C.M.G. and a D.S.O.; Surgeon and Director of Surg. Unit to St. Bartholomew's Hosp.; Professor of Surgery, Univ. of London; *Surgeon-in-chief pro tem.*, P. B. B. H., March 20 to April 3, 1921.

DR. DUNCAN GRAHAM

M.D., Univ. of Toronto, 1905; Professor of Medicine, Univ. of Toronto; Physician-in-chief, Toronto General Hospital; *Physician-in-chief pro tem.*, P. B. B. H., March 3 to March 10, 1929.

DR. EVARTS GRAHAM

M.D., Rush Medical College, 1907; Professor of Surgery, Washington Univ., St. Louis, Mo.; *Surgeon-in-chief pro tem.*, P. B. B. H., April 26, 1925-May 3, 1925.

VISITING PHYSICIANS AND SURGEONS

DR. JAMES B. HERRICK

A.B., Univ. of Mich., 1882 (Hon. A.M., *ibid.*, 1907); M.D., Rush Medical College, 1888; Professor of Medicine, *ibid.*, 1900; Attending Physician, Presbyterian Hospital, Chicago, Illinois, 1895; *Physician-in-chief pro tem.*, *P. B. B. H.*, February 15 to February 21, 1924.

DR. GEORGE J. HEUER

M.D., Johns Hopkins Univ., 1907; successively Associate Professor of Surgery, Johns Hopkins Univ., Professor of Surgery, Univ. of Cincinnati, and Professor of Surgery, Cornell Univ. Medical School, New York, *Surgeon-in-Chief pro tempore*, *P. B. B. H.*, July 12-16, 1932.

DR. ALBION WALTER HEWLETT

B.S., Univ. of Cal., 1895; M.D., Johns Hopkins Medical School, 1900; Professor of Internal Medicine, Univ. of Mich., 1908-16; Professor of Medicine, Leland-Stanford Jr. Univ., San Francisco, 1916-25; *Physician-in-chief pro tem.*, *P. B. B. H.*, May 1 to May 4, 1915, and January 2 to January 8, 1916. Died November 10, 1925.

DR. CHARLES F. HOOVER

M.D., Harvard, 1892; Professor of Medicine, Western Reserve Univ., Cleveland, Ohio; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, February 3 to February 9, 1924. Died June 15, 1927.

DR. CAMPBELL P. HOWARD

M.D., McGill, 1901; Professor of Medicine, McGill University, Montreal; Physician to Montreal General Hospital, Montreal; *Physician-in-chief pro tem.*, *P. B. B. H.*, November 16 to November 21, 1931.

DR. SAMUEL W. LAMBERT

A.B., Yale, 1880; Ph.B., *ibid.*, 1882; M.D., Columbia, 1885; A.M., Yale, 1905; D.Sc., Columbia, 1921; Professor Clinical Medicine, Columbia, 1903-19; Dean, Coll. Phys. and Surgs. (Columbia), 1904-19; Attending Physician, New York Hosp., 1896-1909; Attending Physician, St. Luke's Hosp., 1906; *Physician-in-chief pro tem.*, *P. B. B. H.*, January 24 to January 30, 1926.

DR. HENRY ROBERT MURRAY LANDIS

A.B., Amherst, 1894; M.D., Jefferson Med. Coll., 1897; Director, Clinical and Sociological Departments, Henry Phipps Institute, Philadelphia, Pennsylvania; *Physician-in-chief pro tem.*, *P. B. B. H.*, Jan. 18 to Jan. 25, 1919.

PROF. RENÉ LERICHE

Professor of Surgery, University of Strasbourg; Professor of Surgery, University of Lyons, 1932; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, June 12 to June 20, 1929.

DR. DEAN DEWITT LEWIS

A.B., Lake Forest Univ., 1895; M.D., Rush Med. Coll., 1899; Associate Professor of Surgery, Rush Medical College, 1919-25; Attending Surgeon, Presbyterian Hosp., Chicago; Professor of Surgery, Johns Hopkins Univ., 1925; *Surgeon-in-chief, pro tem.*, *P. B. B. H.*, March 15 to March 24, 1920.

PETER BENT BRIGHAM HOSPITAL

SIR THOMAS LEWIS

C.B.E.; F.R.C.P.; F.R.S.; M.D., University College, London, England, 1906; Physician, University College, London, England; Physician to Staff of Med. Research Comm.; *Physician-in-chief pro tem.*, *P. B. B. H.*, October 26 to November 2, 1914.

DR. WARFIELD T. LONGCOPE

A.B., Johns Hopkins Univ., 1897; M.D., *ibid.*, 1901; Bard Professor of Medicine, Columbia Univ., New York, 1914-21; Professor of Medicine, Johns Hopkins Univ., and Physician-in-chief, Johns Hopkins Hospital, 1922; *Physician-in-chief pro tem.*, *P. B. B. H.*, January 13 to January 20, 1917.

DR. WILLIAM DE B. MACNIDER

M.D., Univ. of N. C., 1903; Professor of Pharmacology, Univ. of N. C., 1905; *Physician-in-chief pro tem.*, *P. B. B. H.*, April 13 to April 17, 1925.

DR. THOMAS McCRAE

A.B., Univ. of Toronto, 1891; M.B.; M.D., *ibid.*, 1903; F.R.C.P., England; Associate Professor of Medicine, Johns Hopkins Univ., 1906-12; Professor of Medicine, Jefferson Med. Coll., 1912; Physician to Jefferson and Penn. Hosps.; *Physician-in-chief pro tem.*, *P. B. B. H.*, March 13 to March 19, 1921.

DR. JAMES S. McLESTER

A.B., Univ. of Alabama, 1896; M.D., Univ. of Virginia, 1899; Prof. of Med., Univ. of Alabama; *Physician-in-chief pro tem.*, *P. B. B. H.*, April 27 to May 3, 1930.

PROF. GUNNAR NYSTRÖM

Professor of Surgery, University of Upsala, Sweden; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, May 23 to May 26, 1930.

SIR D'ARCY POWER, K.B.E.

M.A., M.B., Univ. of Oxford, 1882; F.R.C.S. (England), 1883; Consulting Surgeon, St. Bartholomew's Hospital, London, England; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, April 20 to May 5, 1924.

PROF. VITTORIO PUTTI

Professor of Orthopedics, University of Bologna; Director, Istituto Ortopedico Rizzoli; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, May 30 to June 6, 1932.

DR. DAVID RIESMAN

M.D., Univ. of Pa., 1892; Prof. Clin. Med., *ibid.*; Physician, Philadelphia General Hospital and University Hospital, Pa.; Clinician, Philadelphia; *Physician-in-chief pro tem.*, *P. B. B. H.*, April 25 to May 2, 1927.

DR. EMMET RIXFORD

M.D., Cooper Medical College, San Francisco, 1891; Professor of Surgery, Leland-Stanford Jr. Univ.; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, April 25 to May 9, 1927.

VISITING PHYSICIANS AND SURGEONS

SIR HUMPHRY ROLLESTON, Bart.

G.C.V.O.; K.C.B.; M.A. and M.D., Cambridge University; Fellow and sometime President of the Royal College of Physicians of London; Hon. D.Sc., D.C.L., LL.D.; Fellow and sometime President of the Royal Society of Medicine; Consulting Physician (Temporary Surgeon Rear-Admiral) to the Royal Navy, 1914-19; Emeritus Physician, St. George's Hospital, London; Physician in Ordinary to H. M., the King; Regius Professor of Physic, University of Cambridge, Cambridge, England; *Physician-in-chief pro tem.*, *P. B. B. H.*, March 25 to April 1, 1928.

DR. CLARENCE L. STARR

M.B., Univ. of Toronto; M.D., Univ. of New York; LL.D.; Professor of Surgery, Univ. of Toronto; Surgeon-in-chief, Toronto General Hosp.; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, March 7 to March 16, 1926. *Died December 25, 1928.*

SIR HAROLD J. STILES

Kt., cr. 1918; K.B.E., cr. 1919; M.B., C.M., F.R.C.S., Edinburgh; British Colonel, R.A.M.C.; Mem. Army Med. Advisory Board; Surgeon, Royal Edinburgh Hosp. for Sick Children, and Chalmers Hosp.; Professor of Clinical Surgery, 1919-25; Late Lecturer on Applied Anatomy, Univ. of Edinburgh; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, April 8 to April 21, 1923.

DR. WILLIAM S. THAYER

A.B., Harvard, 1885; M.D., *ibid.*, 1889; LL.D., Washington Coll., 1907; Hon. F.R.C.P.I., 1912; Brig. General, U. S. A. M. C., 1918-19; Professor of Medicine, Johns Hopkins Univ., 1919-21; Physician-in-Chief, Johns Hopkins Hosp., 1919-21; Visiting Physician, Johns Hopkins Hosp., 1921; *Physician-in-Chief pro tem.*, *P. B. B. H.*, November 14 to November 21, 1913. *Died December 10, 1932.*

SIR CUTHBERT WALLACE

C.B., 1918; K.C.M.G., 1916; M.B., B.S., London; F.R.C.S., Eng.; Surgeon to St. Thomas' Hosp.; Dean, St. Thomas' Hosp. Med. School; Late Surgeon, East London Hosp. for Children; Lecturer on Surgery, St. Thomas' Hosp.; served in South Africa as Surgeon to Portland Hosp., 1900; European War, 1914-18; Maj. Gen., A. M. S.; Consulting Surgeon, B. E. F., France; *Surgeon-in-Chief pro tem.*, *P. B. B. H.*, April 24 to May 8, 1922.

PROF. DAVID PERCIVAL DALBRECK WILKIE

O.B.E., M.D., M.Ch., F.R.C.S. (Edin. and Eng.); Professor of Surgery, University of Edinburgh; Surgeon to the Edinburgh Royal Infirmary; *Surgeon-in-chief pro tem.*, October 8 to October 11, 1929.

DR. ROLLIN TURNER WOODYATT

B.S., Univ. of Chicago, 1896; M.D., Rush Med. Coll., 1902; Clin. Professor of Medicine, Univ. of Chicago; Attending Physician, Presbyterian Hosp., Chicago; *Physician-in-Chief pro tem.*, *P. B. B. H.*, December 16 to December 23, 1921.

Traveling Fellows in Surgery

LEO M. DAVIDOFF	1926
HARLAN F. NEWTON	1927
FRANC D. INGRAHAM	1928
WILLIAM DEG. MAHONEY.....	1932

George Gorham Peters Traveling Fellows

ARTHUR J. McLEAN	1929
ERIC OLDBERG	1930
FRANK N. GLENN	1931
KENNETH W. THOMPSON	1933

Harvey Cushing Fellows

KENNETH WADE THOMPSON..	Mar. 1-July 1, 1933
MAX T. SCHNITKER....	Oct. 13, 1933-Mar. 1, 1934
SAMUEL R. SNODGRASS.....	Mar. 1, 1934



Register of Present Members of the Staff

ABBREVIATIONS

P. B. B. H.—Peter Bent Brigham Hospital	M. G. H. —Massachusetts General Hospital
B. C. H. —Boston City Hospital	Harv. —Harvard University
J. H. H. —Johns Hopkins Hospital	H. O. —House Officer

ALT, RICHARD E.

A.B., Harv., 1927; M.D., *ibid.*, 1931; H. O., M. G. H., July 1, 1931-August 1, 1933; *Fellow in Urol., P. B. B. H.*

AUB, JOSEPH C.

A.B., Harv.; M.D., *ibid.*, 1916; Physician-in-Chief, Huntington Memorial Hospital; Assoc. Prof. of Med., Harv.; *Sr. Assoc. in Med., P. B. B. H.*

BAILEY, ORVILLE T.

A.B., Syracuse, 1928; M.D., Albany Med. Coll., 1932; Interne, Albany Hosp., 1932-33; *Pathol. H. O., P. B. B. H.*

BARTRAM, EDWARD A.

M.D., Univ. of Western Ontario, 1928; Rotating Interne, Montreal Gen. Hosp., 1928-29; Sr. in Pathol., *ibid.*, 1929-30; Demonstrator in Pathol., McGill Univ., 1929-30; Sr., Med. Serv., Montreal Gen. Hosp., 1930-31; Asst. in Med., Harv., 1931-32; *Asst. Res. Phys., P. B. B. H., July 1, 1932-August 15, 1933*; in practice, London, Ontario, Canada.

BATES, ROBERT REED

B.S., Northwestern, 1931; M.D., *ibid.*, 1932; Interne, Passavant Memorial Hosp., 1932-33; *Surg. H. O., P. B. B. H., April 1, 1933-September 1, 1933 (resigned).*

BENNETT, DARWIN E.

B.S., Whitman, 1924; M.D., Harv., 1931; *Pathol. H. O., P. B. B. H., July 1, 1931-January 1, 1932*; *Surg. H. O., ibid., January 1, 1932-May 1, 1933.*

BLOTNER, HARRY H.

A.M., Harv., 1931; M.D., Tufts, 1924; Gen. Interne, Eastern Maine General Hosp., 1924-25; *Asst. Res. Phys., P. B. B. H., 1925-26*; Consultant, Weymouth Hosp.; *Jr. Assoc. in Med., P. B. B. H., December 1, 1926-September 1, 1927, and January 24, 1929-December 31, 1933*; *Asst. in Med., Harv.; Assoc. in Med. P. B. B. H.*

PETER BENT BRIGHAM HOSPITAL

BRANCH, CHARLES D.

A.B., Univ. Mich., 1927; M.D., *ibid.*, 1931; Interne, Lakeside Hosp., 1932-33; *Asst. Res. Surg., P. B. B. H.*

BREWSTER, ALBERT H.

B.A., Univ. of Va., 1914; M.D., J. H. M. S., 1918; M. C., U. S. Army, 1917-19; Children's Hosp. Sch., Baltimore, Maryland, 1919-20; *Surg. H. O., P. B. B. H., Feb. 15, 1920-July 1, 1921*; Orthopedic Service, Children's Hosp., Boston; Instr., Orthopedic Surg., Harv.; Visit. Orth. Surg., N. E. Peabody Home for Crippled Children, and Industrial School for Crippled and Deformed Children; *Jr. Assoc. Orth. Surg., P. B. B. H.*; in practice, Boston.

BRIGHT, ERNEST F.

A.B., Hiram Coll., Ohio, 1925; M.D., Harv., 1929; H. O., Broadway Maternity Hosp., Cambridge, Mass., 1926-27; Pathol. H. O., Palmer Mem. Hosp., 1929-30; Interne in Surg., Lakeside Hosp., 1930-31; Crile Teach. Fellow in Surg., Western Reserve Univ., 1931-32; *Asst. Res. Surg., Lakeside Hosp., July-August, 1932*; *Asst. Res. Surg., P. B. B. H., September 1, 1932-November 1, 1933*; Chief Surg. Res., Lakeside Hosp.

BRYAN, JR., WILLIAM W.

B.S., Emory Univ., 1930; M.D., *ibid.*, 1932; Rotating Interne, Jackson Mem. Hosp., Miami, Florida, 1932-33; *Roent. H. O., P. B. B. H.*

CANNADY, EDWARD W.

M.D., Washington Univ., 1931; Med. H. O., Barnes Hosp., St. Louis, 1931-33; *Asst. Res. Phys., P. B. B. H.*

CANNON, WALTER BRADFORD

A.B., Harv., 1896; A.M., *ibid.*, 1897; M.D., *ibid.*, 1900; S.D., Yale, 1923; LL.D., Wittenberg, 1927, Boston University, 1929; Doctor, Liege, 1930; Doctor, Strasbourg, 1930; Doctor, Paris, 1931; C.B. (military), 1919; D.S.M., 1922; Instr. in Zoölogy, Harv., 1899-1900; Instr. in Physiol., *ibid.*, 1900-02; *Asst. Prof. Physiol., ibid.*, 1902-06; George Higginson Prof. Physiol., *ibid.*; Fellow, Am. Acad., 1906; Mem. Am. Philos. Soc., 1908; Mem. Nat. Acad. of Sciences, 1914; Croonian Lecturer, Royal Society, London, 1918; Corr. Mem., Société de Biologie, Paris, 1919; Reale Accademia delle Scienze, Bologna, 1921; Honorary Member, Sociedad de Biologia, Buenos Aires, 1922; Assoc. Mem., Société Belge de Biologie and Société de Psychologie, Paris, 1930; Foreign Honorary Fellow, Royal Society Edinburgh, 1930; Exchange Professor for France, 1929-30; Baly Medalist, Royal College of Physicians, London, 1931; Member, Kaiserliche Deutsche Akademie der Naturforscher, Halle, 1932; Honorary Member, Academia de Medicina, Barcelona, 1932; *Consult. Physiol., P. B. B. H.*

CHEEVER, DAVID

A.B., Harv., 1897; M.D., *ibid.*, 1901; *Surg. H. O., B. C. H., 1901-03*; *Asst. in Anat., Harv., 1903-08*; *Asst. Visit. Surg., B. C. H.,*

REGISTER OF PRESENT MEMBERS OF THE STAFF

1905-12; Demonstr. in Anat., Harv., 1908-13; Asst. Prof. Surg. Anat., Harv.; Chief Surg., 2d Harv. Unit, B. E. F., France, 1915-16; Assoc. Prof. of Surg., Harv.; *Surg., P. B. B. H.*

CHRISTIAN, HENRY ASBURY

A.B., and A.M., Randolph-Macon, 1895; Grad. Stud., *ibid.*, 1895-96; LL.D., *ibid.*, 1923; M.D., Johns Hopkins, 1900; A.M., Harv., 1903; Sc.D. (Hon.) Jefferson, 1928; LL.D., Western Reserve, 1931; Asst. Pathol., B. C. H., 1900-02; Asst. Visit. Pathol., *ibid.*, 1902-05; Asst. Visit. Pathol., Children's Hosp., Boston, 1902-05; Instr. in Pathol., Harv., 1902-05; Asst. Visit. Phys., Long Island Hosp., Boston, 1905; in charge of med. students, M. G. H., 1905-07; Instr. in Theory and Practice of Physic, Harv., 1905-07; Asst. Prof. in Theory and Practice of Physic, *ibid.*, 1907-08; Phys.-in-Chief, Carney Hosp., Boston, 1907-12; Dean, Faculty of Med. and of Med. Sch., Harv., 1908-12; Fellow, Am. Acad.; Corr. Mem., Wiener Gesellschaft. f. innere Medizin, etc.; formerly Major, M. R. C., U. S. Army; (on leave of absence Oct. 1, 1919-Oct. 1, 1920, as Chairman, Div. of Med. Sciences, Nat'l Research Council, Washington, D. C.); Hersey Prof., Theory and Practice of Physic, Harv., since 1908; *Physician-in-Chief, P. B. B. H.*

CLAY, CHARLES L.

B.S., Dart., 1919; M.D., Columbia Univ., Coll. of Phys. and Surgs., 1921; Interne, Lawrence General Hosp., 1921-22; Asst. Phys., Danvers State Hosp., 1922-28; *2nd Asst. Supt., P. B. B. H., January 15, 1928-July 1, 1930; 1st Asst. Supt., ibid., July 1, 1930-March 5, 1934;* Med. Director, Long Island Hosp., Boston.

CLIFFORD, MILTON HENRY

A.B., Harv., 1927; M.D., *ibid.*, 1931; *Med. H. O., P. B. B. H., Nov. 1, 1931-Mar. 1, 1933.*

CLIFFORD, RANDALL

A.B., Harv., 1912; M.D., *ibid.*, 1917; Sr. Grade, U. S. Navy Med. Corps; Visit. Phys., Prendergast Preventorium, 1923-24; Asst. Phys., Channing Home, 1924-29; Asst. to Out-Patients, M. G. H., 1923-29; Assoc. in Med., M. G. H., 1929-31; Asst. in Med., Harv.; *Assoc. in Med., P. B. B. H.*

COX, WILLIAM V.

A.B., Univ. of Mich., 1921; M.D., Harv., 1925; H. O., Lakeside Hosp., 1925-26; Asst. Res., *ibid.*, 1926-28; Crile Fellow in Surg., Western Reserve Univ., 1928-29; *Asst. Res. Surg., P. B. B. H., July 15, 1929-Jan. 6, 1930;* Res. Surg., Lakeside Hosp., Jan., 1930-July, 1931; Instr. in Surg., Western Reserve Univ., 1931-32; Asst. Surg., Lakeside Hosp., 1931-32; Asst. Surg., Disp., *ibid.*, 1931-32; Instr. in Surg., Harv.; *Jr. Assoc. in Surg., P. B. B. H.*

CUSHING, HARVEY

A.B., Yale, 1891; A.M. and M.D., Harv., 1895; House Pupil, M. G. H., 1895-96; Res. Surg., J. H. H., 1896-1900; successively

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Asst., Instr. and Assoc. Prof. in Surg., J. H. M. S., 1898-1912; Hon. F.R.C.S., London, 1913, Ireland, 1918, and Edinburgh, 1927; Hon. A.M., Yale, 1913; D.Sc., Washington, 1915, and Yale, 1919; LL.D., Western Reserve, 1919, Cambridge, 1920, Glasgow, 1927, Edinburgh, 1927; Litt.D., Jefferson, 1926, Dartmouth, 1929; Dr. (*Hon. caus.*), Strasbourg, 1929, Brussels, 1930, Bern, 1931; Budapest, 1931; Amsterdam, 1932; Paris, 1933; Am. Acad. of Arts and Sciences, 1914; Nat. Acad. Sciences, 1917; Am. Phil. Soc., 1930; Director, U. S. Army Base Hosp. No. 5, 1916-19; Col., M. C., U. S. A.; Companion of the Bath; D.S.M.; Offic. Legion d'Honneur; Stud., St. Bartholomew's, 1922; Mickle Fellow, Univ. of Toronto, 1922; Cameron Prize, Univ. of Edinburgh, 1924; Macewen Lecturer, Univ. of Glasgow, 1927; Lister medalist, Royal Coll. Surg. (London), 1930; Moseley Prof. of Surg., Harv., 1912-32; *Surgeon-in-chief, P. B. B. H.*, 1912-1932; *Surg.-in-chief Emeritus, ibid.*; Sterling Prof. of Neurol., Yale.

CUTLER, ELLIOTT CARR

A.B., Harv., 1909; M.D., *ibid.*, 1913; *Surg. H. O.*, *P. B. B. H.*, Nov. 1, 1913-March 1, 1915; Res. Surg., Harv. Unit, Am. Ambulance Hosp., Paris, France, 1915; Res. Surg., M. G. H., 1915-16; Alumni Asst. in Surg., Harv., 1915-16; Vol. Asst., Rockefeller Inst., New York, 1916-17; Major M. C., U. S. Army; D.S.M., 1917-19; Instr. in Surg., Harv., 1921-24; *Res. Surg.*, *P. B. B. H.*, Aug. 1, 1919-Sept. 1, 1921; *Assoc. in Surg.*, *ibid.*, Sept. 1, 1921-July 1, 1924; Chairman, Dept. of Surg., and Director of Lab. of Surg. Research, Harv., 1922-24; Prof. of Surg., Western Reserve Univ. Med. Sch., and Chief Surg., Lakeside Hosp., Cleveland, Ohio, 1924-1932; Moseley Prof. of Surg., Harv.; *Surgeon-in-chief, P. B. B. H.*

DELARUE, JR., EDWARD A.

B.S., Univ. of Va., 1929; M.D., *ibid.*, 1933; *Med. H. O.*, *P. B. B. H.*

DENNY, GEORGE PARKMAN

A.B., Harv., 1909; M.D., *ibid.*, 1913; *Med. H. O.*, *P. B. B. H.*, June 1, 1913-July 1, 1914; Vol., Lab. of Physiol. Research, Johns Hopkins, 1914-15; Capt., M. C., U. S. Army; Alumni Asst. in Med., Harv., 1915-16; Phys. to Med. Students, *ibid.*; Director of Scholarships, *ibid.*; Attend. Phys., Channing Home, Boston; Assoc. Chief, Med. Dept., Boston Disp.; *Assoc. in Med.*, *P. B. B. H.*

DERICK, CLIFFORD L.

M.D., McGill Univ., 1918; H. O., Montreal Gen. Hosp., 1919-22; Fellow, Nat. Research Council, 1922-23; *Asst. Res. Phys.*, *P. B. B. H.*, 1923-24; Asst. in Med. and Research Fellow in Bio-Chemistry, Harv., 1923-24; Asst. Res. Phys., Rockefeller Hosp., N. Y., 1924-28; Asst. Prof. Med., Harv.; *Physician, P. B. B. H.*

DIACK, JR., ARCHIBALD W.

A.B., Dartmouth, 1929; M.D., Univ. of Mich., 1933; *Med. H. O.*, *P. B. B. H.*

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DREWRY, JR., PATRICK HENRY

M.D., Johns Hopkins, 1932; Med. H. O., Baltimore City Hospitals, 1932-33; *Asst. Res. Phys., P. B. B. H.*

DRISSEN, EDWARD M.

B.A., Univ. of Wis., 1927; M.D., Harv., 1931; Surg. H. O., Children's Hosp., Boston, 1931-32; *Surg. H. O., P. B. B. H., April 1, 1932-August 1, 1933.*

DUNPHY, JOHN E.

A.B., Holy Cross, 1929; M.D., Harv., 1933; *Surg. H. O., P. B. B. H.*

DUPERTUIS, SAMUEL MILTON

B.S., Harv., 1928; M.D., *ibid.*, 1932; *Surg. H. O., P. B. B. H., October 1, 1932-March 1, 1934.*

ECKELS, JOHN C.

A.B., Park Coll., 1922; M.D., Harv., 1927; Interne, Lankenau Hosp., Philadelphia, 1928-30; *Asst. Res. Surg., P. B. B. H., Jan., 1930-Sept., 1931*; Moseley Trav. Fellow, 1931-32; Asst. in G. U. Surg., Harv.; *Jr. Assoc. in Urol., P. B. B. H.*

EISENHARDT, LOUISE

M.D., Tufts, 1925; Interne, N. E. Hosp. for Women and Children, 1925-26; Attend. Phys., *ibid.*, 1926-29; Consult. Neurol., *ibid.*; *Jr. Assoc. in Neurol. Surg., P. B. B. H.*

EMERY, JR., EDWARD STANLEY

A.B., Harv., 1916; M.D., *ibid.*, 1920; *Med. H. O., P. B. B. H., Nov. 1, 1920-March 1, 1922*; *H. O. X-ray Dept., ibid., July 1, 1922-July 1, 1923*; Stud. in Clin. of Dr. Sippy, Presbyterian Hosp., Chicago, 1923-24; Asst. in Med., Harv.; Phys. to Boston Disp.; *Jr. Assoc. in Med., P. B. B. H., April 24, 1924-May 10, 1926*; *Assoc. in Med., ibid.*

EPPINGER, EUGENE CHARLES

A.B., Williams, 1926; M.D., Harv., 1930; H. O., B. C. H. (Neurol.), 1930-31; *Med. H. O., P. B. B. H., March 1, 1931-July 1, 1932*; *Asst. Res. Phys., P. B. B. H., 1932-33*; *Res. Phys., ibid.*

ESCAMILLA, ROBERTO FRANCISCO

A.B., Univ. of Cal., 1927; M.D., Harv., 1931; *Med. H. O., P. B. B. H., November 1, 1931-March 1, 1933*; Asst. Visit. Pathol., San Francisco Hosp., 1933; Asst. Res. Phys., Univ. of Calif. Hosp.

ETHRIDGE, CLAYTON BERNARD

M.D., Univ. of Va., 1933; *Med. H. O., P. B. B. H.*

FITZ, REGINALD

A.B., Harv., 1906; M.D., *ibid.*, 1909; Med. House Pupil, M. G. H., 1910-11; Vol. Asst. in Pharmacol. and in Med. Clinic, J. H. H., 1911-12; *Sr. Med. H. O., P. B. B. H., Nov. 1, 1912-July 1, 1913*; *Asst. Res. Phys., ibid., July 1, 1913-Sept. 1, 1915 (granted leave of*

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absence to Dec. 31, 1916) ; Fellow in Physiol., Harv., 1914-15; Asst. Res. Phys., Rockefeller Inst. Hosp., New York City; Major, M. C., U. S. Army, 1917-19; Assoc. in Med. and Act. Res. Phys., East Med. Serv., M. G. H., 1919-20; Mayo Clinic and Mayo Foundation, 1920-22; Assoc. Prof. of Med., Harv.; *Phys., P. B. B. H.*

FLYNN, JOHN MOLLOY

A.B., Boston College, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H., Nov. 1, 1927-March 1, 1929*; Asst. in Med., Harv.; *Jr. Assoc. in Med., P. B. B. H.*; in practice, Boston.

FOLIN, OTTO

S.B., Univ. of Minn., 1892; Ph.D., Univ. of Chicago, 1898; Sc.D., Washington Univ., 1915; Sc.D., Univ. of Chicago, 1916; Hon. M.D., Lund, 1918; Mem. Nat. Acad., 1916; Stud., Univs. of Sweden and Germany, 1897 and 1898; Asst. Prof. of Physiol. Chem., Univ. of W. Va., 1899-1900; Research Chem., McLean Hosp., Waverley, 1900-08; Assoc. Prof. of Biol. Chem., Harv., 1907-09; Hamilton Kuhn Prof. of Biol. Chem., *ibid.*; Chem., M. G. H.; *Consult. Chem., P. B. B. H.*

FRIEDLANDER, RICHARD DUFFICY

A.B., Univ. of Calif. 1926; A.M., *ibid.*, 1928; M.D., *ibid.*, 1930; Research Asst., George Williams Hooper Foundation for Med. Research, San Francisco, 1927; Interne, Univ. of Calif. Hosp., 1930-31; Asst. Res. in Med., *ibid.*, 1931-32; Research Assoc., George Williams Hooper Foundation for Med. Research, 1931-32; *Asst. Res. Phys., P. B. B. H.*

FROTHINGHAM, CHANNING

A.B., Harv., 1902; M.D., *ibid.*, 1906; Med. H. O., B. C. H., 1906-07; Asst. Visit. Phys., Carney Hosp., O. P. D., Boston, 1908-12; Sec'y, Faculty of Med., Harv., 1908-13; Asst. in Theory and Practice of Physic, *ibid.*, 1908-12; Instr. in Med., *ibid.*, 1913-22; Lieut. Col., M. C., U. S. Army, June 1, 1917-Dec. 5, 1918; Asst. Prof. of Med., Harv., 1922-28; Assoc. Clin. Prof. of Med., Harv., 1928-33; Chairman, Dept. of Med., *ibid.*, 1928-33; *Physician, P. B. B. H., 1912-32*; Physician-in-Chief, Faulkner Hosp.; *Consult. Phys., P. B. B. H.*

FULTON, MARSHALL N.

Ph.B., Brown Univ., 1920; Rhodes Scholar, Oxford; A.B., Oxford Univ., 1922; M.D., Johns Hopkins, 1925; Vol. Asst. in Pathol., Johns Hopkins, Sept., 1925-Feb., 1926; *Med. H. O., P. B. B. H., March 1, 1926-July 1, 1927*; *Asst. Res. Phys., ibid., Sept. 1, 1927-Sept. 1, 1929*; *Res. Phys., ibid., Sept. 1, 1929-Sept. 1, 1931*; Jr. Asst. Visit. Phys., R. I. Hosp., Prov., 1931-32; Asst. in Med., Harv.; *Jr. Assoc. in Med., P. B. B. H.*

GAISER, DAVID WESLEY

B.S., Whiteman, 1924; M.D., Harv., 1931; *Surg. H. O., P. B. B. H., Oct. 1, 1931-Feb. 1, 1933*; H. O., Pathol., New Haven Hosp., 1933-34; Asst. Res. Surg., *ibid.*

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GIBSON, JOHN GRAHAM

A.B., Amherst, 1919; M.A., Harv., 1921; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H., July 1, 1932-Nov. 1, 1933*; Research Fellow in Med., Harv., 1933-34; *Vol. Grad. Asst. in Med., P. B. B. H.*

GLENDY, ROBERT EARLE

B.S., Va. Military Inst., 1925; M.D., Univ. of Va., 1931; *Med. H. O., P. B. B. H., Nov. 1, 1931-Mar. 1, 1933*; Asst. Phys., Middlesex Co. San., Mar.-Sept., 1933; Asst. Res. Phys., M. G. H.

GRABFIELD, GUSTAVE PHILIP

A.B., Williams, 1912; M.D., Harv., 1915; Teaching Fellow, Dept. of Pharmacol., *ibid.*, 1915-16; *Med. H. O., P. B. B. H., March 1, 1916-June 17, 1917*; Capt., M. C., U. S. Army, 1917-19; Asst. in Roent., Univ. of Mich. Hosp., 1919-20; Instr. in Pharm., Harv., 1920-21; Asst. in Pharm., *ibid.*, 1921-22; Instr. in Pharm. and Asst. in Med., *ibid.*; *Jr. Assoc. in Med., P. B. B. H., July 1, 1922-Nov. 12, 1925*; *Assoc. in Med., ibid.*

GREEN, WILLIAM T.

A.B., Indiana Univ., 1921; A.M., *ibid.*, 1922; M.D., *ibid.*, 1925; Instr. in Anat., Indiana Univ., 1921-22; Interne, Indiana Univ. Hosp.; Asst. Res. Surg., Henry Ford Hospital, Detroit; *Surg. H. O., P. B. B. H., Aug. 1, 1929-Feb. 1, 1930*; *Asst. Res. Surg., ibid., Feb. 1, 1930-Oct. 1, 1930*; *Jr. Assoc. in Orth. Surg., ibid.*

GROSS, ROBERT E.

B.A., Carlton Coll., 1927; M.D., Harv., 1931; Pathol. H. O., Children's Hosp., 1931; Surg. H. O., *ibid.*, 1932-33; *Pathol. H. O., P. B. B. H.*

GUNDERSEN, TRYGVE

M.D., Harv., 1926; *Surg. H. O., P. B. B. H., Nov. 1, 1926-Mar. 1, 1928*; Ophthalmic Interne, Mass. E. and E. Infirm., 1929-30; Clin. Asst., *ibid.*; Asst. in Ophth. Research, Howe Lab. of Ophthalmology; Asst. in Ophthalmology, Harv.; *Assoc. in Ophthalmology, P. B. B. H.*; in practice, Boston.

HAHN, RICHARD G.

B.S., Lafayette; M.D., Harv., 1928; *Med. H. O., P. B. B. H., March 1, 1929-July 1, 1930*; *Asst. Res. Phys., ibid., July 1, 1930-Sept. 1, 1931*; *Res. Phys., ibid., Sept. 1, 1931-Sept. 1, 1933*; Fellow in Pathol., Cornell Univ.

HALLARAN, WILLIAM RICHARD

B.S., College of Wooster, Wooster, Ohio, 1925; M.D., Western Reserve, 1932; *Med. H. O., P. B. B. H., July 1, 1932-Nov. 1, 1933*; Asst. Res. in Med., Lakeside Hosp.

HAMILTON, CARTER C.

M.D., Univ. of Iowa, 1923; Rotating Interne, Miller Hosp., St. Paul, 1923-24; General Practice, Iowa, 1924-32; *H. O., Roentgenology.*

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P. B. B. H., July 1, 1932-July 1, 1933; *Asst. Res. in Roent.*, *ibid.*, July 1, 1933-July 1, 1934.

HARE, HUGH F.

M.D., Harv., 1928; Interne, Univ. Hosp., Ann Arbor, Michigan, 1928-30; *H. O.*, *Roent.*, *P. B. B. H.*, July 1, 1930-July 1, 1931; *Asst. Res. Roent.*, *ibid.*, July 1, 1931-Oct. 1, 1932; Radiologist, Lahey Clin., Boston; Roentgenologist, Middlesex Co. San., Waltham; *Assoc. in Roent.*, *ibid.*

HARRISON, JOHN H.

B.S., Univ. of Va., 1929; M.D., *ibid.*, 1932; Med. Interne, Lakeside Hosp., 1932-33; *Surg. H. O.*, *P. B. B. H.*

HARVEY, EARLE A.

B.S., Univ. of Wash., 1925; M.D., Harv., 1929; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1929-Mar. 1, 1931; House Phys., Mercy Hosp., Denver, Colo., July 1, 1931-April 1, 1933; *Jr. Assoc. in Med.*, *P. B. B. H.*; in practice, Boston.

HASS, GEORGE MARVIN

M.D., Harv., 1929; *Pathol. H. O.*, *P. B. B. H.*, Jan. 1, 1930-Jan. 1, 1931; *Asst. Res. Pathol.*, Children's Hosp., Jan.-Sept., 1931; *Res. Pathol.*, *ibid.*, 1931-32; *Instr. in Pathol.*, Harv.; *Res. Pathol.*, *P. B. B. H.*

HOMANS, JOHN

A.B., Harv., 1899; M.D., *ibid.*, 1903; House Pupil, M. G. H., 1903-04; *Asst. in Hunterian Lab.*, Johns Hopkins, 1908-09; *Vol. Asst. Surg.*, Children's Hosp., Boston, 1909-10; *Surg.*, M. G. H., O. P. D., 1910-12; *Asst. in Surg.*, Harv., 1910-13; *Surg.*, Boston Dispensary, 1913-14; *Assoc. in Surg.*, Harv., 1914-15; Major, M. C., U. S. Army, 1918-19; *Asst. Prof. Surg.*, Harv.; *Surg.*, *P. B. B. H.*

HORSFALL, JR., FRANK L.

A.B., Univ. of Wash., 1927; M.D., C.M., McGill, 1932; *Pathol. H. O.*, *P. B. B. H.*, July 1, 1932-July 1, 1933.

HOWARD, LAWRENCE

M.D., Wash. Univ., 1928; *Surg. Interne*, Barnes Hosp., 1928-29; *Surg. Pathol. Work*, Cleveland Clinic, 1929-30; *Fellow in Surg.*, *ibid.*, 1930-32; *Fellow in Urol.*, *P. B. B. H.*, Aug. 1, 1932-June 11, 1933.

HOWLAND, JOSEPH BRIGGS

M.D., Harv., 1896; *Surg. House Pupil*, M. G. H., 1896-97; *Asst. Phys.*, State Hosp., Tewksbury, Massachusetts, 1898-1901; *Asst. Supt.*, *ibid.*, 1901-02; *Supt.*, State Colony for the Insane, Gardner, Massachusetts, 1902-07; *Asst. Res. Phys.*, M. G. H., 1907-17; *Asst. Administrator*, *ibid.*, 1908-17; *Act. Administrator and Res. Phys.*, *ibid.*, 1917-19; *Pres.*, American Hosp. Assoc., 1919-20; *Mem. Mass. State Bd. of Reg. of Nurses*, 1919-24; *Pres.*, N. E. Hosp. Assoc.,

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1921-22; Trustee, *ibid.*; President, Local Med. Supt's. Club; Lecturer, Hosp. Adm., Harv.; Secretary, Harvard Cancer Comm.; Administrator, Collis P. Huntington Mem. Hosp. (Harv.); *Supt., P. B. B. H.*

HOYT, LYMAN HOWARD

B.S., Univ. of Iowa; M.D., *ibid.*, 1925; Med. Interne, Univ. Hosp., Iowa City, 1925-26; Asst. in Med., Harv.; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1926-Nov. 1, 1927; Jr. Assoc. in Med., ibid.*

HUMPHREYS, STORER P.

B.A., Norwich Univ., Northfield, Vt., 1928; M.D., Yale, 1932; *Surg. H. O., P. B. B. H.*

HYDER, PRENTISS L.

A.B., Univ. of Texas, 1929; M.D., Harv., 1933; *Surg. H. O., P. B. B. H.*

INGALLS, THEODORE H.

A.B., Hamilton College, 1929; M.D., Harv., 1933; *Med. H. O., P. B. B. H.*

JACKSON, HOWARD COLMAN

A.B., Univ. of Mich., 1929; M.D., Harv., 1933; *Med. H. O., P. B. B. H.*

JOHNSON, HARALD N.

B.Sc., Univ. of Nebraska, 1930; M.A. (Anatomy), *ibid.*, 1932; M.D., *ibid.*, 1933; *Med. H. O., P. B. B. H.*

KNIES, PHILLIP T.

M.D., Ohio State Univ., 1931; Rotating Interne, Walter Reed General Hosp., 1931-32; Jr. Res. Med., Starling-Loving Univ. Hosp., 1932-33; Sr. Res. in Med., *ibid.*, 1933-34; *Asst. Res. Phys., P. B. B. H.*

KNOWLTON, WILSON WARNER

B.S., Bowdoin, 1922; M.D., Harv., 1926; Interne, Rochester Gen. Hosp., Rochester, N. Y., 1926-27; County Health Officer, Louisiana, 1927-29; State District Health Officer, Mass. Dept. Public Health, 1929-34; *Second Asst. Supt., P. B. B. H.*

LEVINE, HAROLD D.

S.B., Harv., 1929; M.D., *ibid.*, 1932; Pathol. Interne, Beth Israel Hosp., 1932-33; *Med. H. O., P. B. B. H.*

LEVINE, SAMUEL ALBERT

A. B., Harv., 1911; M.D., *ibid.*, 1914; *Assoc. in Med., P. B. B. H., July 1, 1914-July 1, 1915; Med. H. O., ibid., July 1, 1915-Nov. 1, 1916;* Moseley Travelling Fellow, Harv., 1916-17; Asst., Rockefeller Inst. Hosp., New York, 1916-17; Capt., M. C., U. S. Army, 1917-19; Instr. in Med., Harv., 1919-30; Asst. Prof. of Med., Harv.; Consult. Phys., Boston Psychopathic Hosp., 1921-24; Phys. to Bos-

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ton Disp., 1924-26; Visit. Phys., Beth Israel Hosp., 1928-33; *Assoc. in Med., P. B. B. H., Aug., 1919-Mar., 1928; Sr. Assoc. in Med., ibid.*

LIGHT, RICHARD U.

Ph.B., Yale, 1924; M.D., Univ. of Mich., 1928; *Surg. H. O., P. B. B. H., July 1, 1929-Nov. 1, 1930; Arthur Tracy Cabot Fellow, Harv.; Jr. Assoc. in Surg., P. B. B. H., Jan. 5, 1931-Mar. 21, 1932; Asst. Res. Surg., ibid., 1932-33; Asst. in Surg., Yale.*

LYNCH, GEORGE WILLIAM

A.B., Harv., 1929; M.D., *ibid.*, 1933; *Med. H. O., P. B. B. H.*

MACDONALD, DONALD

B.A., Johns Hopkins, 1922; M.D., *ibid.*, 1926; *Jr. Assoc. in Otolaryngology, P. B. B. H.*

MACPHERSON, DONALD JOHN

B.S., Univ. of Rochester, 1911; M.D., Harv., 1915; *Med. H. O., P. B. B. H., July 1, 1915-Nov. 1, 1916; Asst. Res. Phys., ibid., Nov., 1916-June 22, 1917; Capt., M. C., U. S. Army, 1917-19; Assoc. in Med., P. B. B. H.*

MARKS, JOSEPH H.

B.A., Univ. of Wis., 1925; M.A., *ibid.*, 1926; M.D., Harv., 1929; *Med. H. O., P. B. B. H., Mar. 1, 1930-July 1, 1931; H. O., Roent., ibid., July 1, 1931-Apr., 1932; Member of Staff, N. Y. State Hosp. For Incipient Tbc., 1932; Asst. Res. Roent., P. B. B. H., 1932-33; Roentgenologist, Truesdale Hosp., Fall River, Mass.*

MARLOW, JR., FRANK WILLIAM

B.S., Hamilton, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H., July, 1927-Nov., 1928; Asst. Res., New Haven Hosp.; Asst. in Med., Yale Univ., Nov., 1928-July, 1929; Asst. in Med., Harv.; Asst. in Med., M. G. H., 1929-34; Asst. in Med., Faulkner Hosp.; Assoc. in Med., P. B. B. H.; in practice, Brookline, Mass.*

MIDELFART, CHRISTIAN FREDRIK

A.B., Yale; M.D., Johns Hopkins, 1931; *Med. H. O., P. B. B. H., Mar. 1, 1932-July 1, 1933; H. O., N. Y. Lying-in Hosp.*

MIDELFART, PETER A. H.

A.B., Yale, 1927; M.D., Harv., 1931; *Med. H. O., P. B. B. H., May 28, 1931-July 1, 1932; Surg. H. O., ibid., July 1, 1932-Nov. 1, 1933; Dept. Pathol., Cornell Univ.*

MINER, LEROY M. S.

Dean, Harvard Dental School; *Consult. in Dental Surg., P. B. B. H.*

MINOT, GEORGE R.

A.B., Harv., 1908; M.D., *ibid.*, 1912; S.D., Harv., 1928; Fellow, American Academy Arts and Sciences; Honorary Fellow, Royal College of Phys., Edinburgh, 1931; Correspondent etranger, Royal

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Acad. of Med., Belgium, 1931; Hon. Fellow, Royal Society of Med., London, 1932; Hon. Fellow, N. Y. Academy of Med., 1933; Hon. Fellow, Inst. of Med. of Chicago, 1933; Med. H. O., East Med. Serv., M. G. H., July, 1912-Dec., 1913; Asst. Res. Phys., Johns Hopkins, 1913-14; Asst. in Med., Johns Hopkins, 1914-15; Special Research Worker, Johns Hopkins, 1914-15; Asst. in Med., Harv., 1915-18; Asst. in Med., M. G. H., 1915-18; Asst. in Chem., Harv., 1915-16; Dalton Scholar, M. G. H., 1916-20; Visit. Phys., St. Luke's Convalescent Home, Boston, 1916-18; Assoc. in Med., M. G. H., 1918-23; Asst. Consult. Phys., Huntington Mem. Hosp., 1917-19; Phys., *ibid.*, 1919-23; Contract Surg., U. S. A., Sept., 1917, and Sept. 15-Nov. 10, 1918; Consult. Phys., Mass. Eye and Ear Infirmary, 1922-24; Phys. to Special Clinic, M. G. H., 1923-25; Asst. Prof. of Med., Harv., 1918-27; Clin. Prof. of Med., *ibid.*, 1927-28; Phys. and Chief of Med. Labs., Huntington Mem. Hosp.; *Assoc. in Med.*, *P. B. B. H.*, Feb. 12, 1925-Mar. 8, 1928; Member, Board of Consultation, M. G. H.; Director, Thorndike Mem. Lab.; Visiting Phys., Second and Fourth Medical Services (Harvard), Boston City Hospital; Consult. Phys., Best Israel Hosp.; Prof. of Med., Harv.; *Consult. Phys.*, *P. B. B. H.*

MONROE, ROBERT THORNHILL

A.B., Univ. of Mich., 1918; M.D., *ibid.*, 1924; *Med. H. O.*, *P. B. B. H.*, July 1, 1924-Nov. 1, 1925; *Asst. Res. Phys.*, *ibid.*, Nov. 1, 1925-Sept. 1, 1926; Asst. in Med., Harv., 1926-28; Instr. in Med., *ibid.*; *Jr. Assoc. in Med.*, *P. B. B. H.*, 1926-32; *Assoc. in Med.*, *ibid.*

MURPHY, WILLIAM P.

A.B., Univ. of Ore., 1914; M.D., Harv., 1922, as of 1920; H. O., R. I. Hosp., 1920-22; *Asst. Res. Phys.*, *P. B. B. H.*, 1922-23; Asst. in Med., Harv., 1924-28; Instr. in Med., *ibid.*; *Jr. Assoc. in Med.*, *P. B. B. H.*, July 10, 1923-May 10, 1926; *Assoc. in Med.*, *ibid.*

MYERS, DANIEL WILBUR

A.B., Univ. of Mich., 1929; M.D., *ibid.*, 1932; *Med. H. O.*, *P. B. B. H.*

MYHRE, WILLIAM N.

M.D., St. Louis Univ., 1931; Interne, St. Luke's Hosp., Spokane, Wash., 1931-32; *Med. H. O.*, *P. B. B. H.*

NEWTON, FRANCIS CHANDLER

A.B., Amherst, 1915; M.D., Harv., 1919; *Surg. H. O.*, *P. B. B. H.*, March 15, 1919-July 1, 1920; *Asst. Res. Surg.*, *ibid.*, July 1, 1920-Sept. 1, 1921; *Res. Surg.*, *ibid.*, Sept. 1, 1921-July 1, 1923; *Jr. Assoc. in Surg.*, *ibid.*, July 1-Sept. 15, 1923; Asst. in Surg., Harv., 1920-23; Moseley Trav. Fellow, *ibid.*, 1923-24; Vol. Asst., Phys. Inst., Berne, Switzerland, 1923-24; Instr. in Surg., Harv., 1924-28; Supervisor of Surg. Lab., *ibid.*, 1925-32; Consult. Surg., N. E. Peabody Home for Crippled Children; Faculty Instr. in Surg., Harv.; *Assoc. in Surg.*, *P. B. B. H.*, 1924-28; *Sr. Assoc. in Surg.*, *ibid.*

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NEWTON, HARLAN FAY

A.B., Yale, 1916; M.D., Harv., 1920; Pathol. H. O., B. C. H., 1920-21; *Surg. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923; Asst. Res. Surg., ibid., Oct. 1, 1923-July 1, 1924; Res. Surg., ibid., July 1, 1924-Oct. 1, 1926; Austin Teach. Fellow in Surg., Harv., 1924-27; Workman Fellow in Physiol., ibid., 1926-27; Moseley and P. B. B. H. Travel. Fellow in Surg., 1927-28; Asst., first Med. Clin., Hamburg-Eppendorf, Germany, 1927-28; Austin Teach. Fellow in Surg., Harv., 1928-31; Faculty Instr. in Surg., *ibid.*; *Jr. Assoc. in Surg., P. B. B. H.**

NOTH, PAUL HENRY

B.S., Univ. of Minn., 1928; M.D., Univ. of Minn., 1931; Rotating Interne, Ancker Hosp., St. Paul, 1931-32; *Med. H. O., P. B. B. H., Nov. 1, 1932-March 1, 1933; Asst. in Med., Boston Disp.*

OBER, FRANK R.

M.D., Tufts, 1905; Clin. Prof. Orth. Surg., Harv.; *Consult. in Orthopedic Surg., P. B. B. H.*

O'HARE, JAMES PATRICK

A.B., Harv., 1908; M.D., *ibid.*, 1911; Med. H. O., B. C. H., So. Dept., 1911; Med. H. O., Carney Hosp., Boston, 1912-13; Fellow in Med., Harv., 1913-15; Asst. Visit. Phys., Carney Hosp., 1913-14; Asst. Visit. Phys., B. C. H., 1915; Asst. in Med., Harv., 1915-18; *Assoc. in Med., P. B. B. H., July 1, 1915-Aug. 1, 1917; Act. Phys., ibid., Aug. 1, 1917-Feb. 1, 1918; Assoc. in Med., ibid., Feb. 1-April 1, 1918; Act. Phys., ibid., April 1, 1918-Jan. 1, 1919; Assoc. in Med., ibid., Jan. 1, 1919-March 8, 1928; Instr. in Med., Harv.; Asst. Prof. of Med., *ibid.*; *Sr. Assoc. in Med., P. B. B. H.**

OLIVER, E. LAWRENCE

M.D., Harv., 1904; Med. H. O., B. C. H., 1905-07; Derm. H. O., M. G. H., 1907-09; Asst. Dermatologist, *ibid.*, 1910-23; Assoc. in Dermatology, *ibid.*, 1923-24; Consult. Dermatologist, Boston Lying-In Hosp.; Beth Israel Hosp.; Children's Hosp.; Long Island Hosp.; Faulkner Hosp.; Cable Mem. Hosp., Ipswich; Elliot Community Hosp., Keene, N. H.; Mass. Eye and Ear Infirm.; Chief, Dermatological Dept., M. G. H.; Clin. Prof. Dermatology, Harv.; *Consult. Dermatologist, P. B. B. H.*

PATTERSON, JR., ROBERT LEE

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PURKS, WILLIAM K.

B.S., Emory Univ., 1926; M.D., *ibid.*, 1929; Interne, Grady Hosp., Atlanta, 1929-30; Med. H. O., *ibid.*, 1930-31; *Asst. Res. Phys., P. B. B. H., July 1, 1931-Feb. 15, 1934; in practice, Vicksburg, Miss.*

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QUINBY, WILLIAM CARTER

A.B., Harv., 1899; M.D., *ibid.*, 1902; House Pupil, M. G. H., 1902-03; Asst. G. U. Surg., Boston Disp., 1907-09; Asst. Surg., N. E. Baptist Hosp., Boston, 1908-14; in charge of Experimental Surg., Brady Clin., J. H. H., 1914-16; Assoc. in Urol., *ibid.*, 1915-16; Clin. Prof., G. U. Surg., Harv.; *Urol. Surg., P. B. B. H.*

REILING, WALTER A.

B.S., Univ. of Dayton, 1930; M.D., Harv., 1933; *Surg. H. O., P. B. B. H.*

RICHTER, ARTHUR B.

A.B., Indiana Univ., 1925; M.D., *ibid.*, 1931; Rotating Interne, Indiana Univ. Hosp., 1931-32; *Med. H. O., P. B. B. H., Nov. 1, 1932-Mar. 1, 1934.*

ROBERTSON, HAROLD F.

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SALTER, WILLIAM THOMAS

A.B., Harv., 1922; M.D., *ibid.*, 1925; Med. Interne, M. G. H., 1925-27; Med. Res., *ibid.*, 1927-28; Moseley Trav. Fellow, Harv., 1928-29; Research Fellow in Med., *ibid.*, 1928-29; Tutor and Instr., Biochemical Sciences, Harv.; Faculty Instr. in Med., *ibid.*; Research Fellow in Biochemistry to Harvard Cancer Commission; Assoc. Phys., Huntington Mem. Hosp.; *Jr. Assoc. in Med., P. B. B. H.*

SCHIRO, HAROLD S.

A.B., Bowdoin, 1929; M.D., Johns Hopkins, 1933; *Med. H. O., P. B. B. H.*

SCHNITKER, MAURICE A.

B.S., Univ. of Toledo, 1929; M.D., Univ. of Mich., 1931; *Med. H. O., P. B. B. H., Mar. 1, 1932-July 1, 1933; Asst. Res. Phys., ibid.*

SCHNITKER, MAX

M.D., Univ. of Mich., 1931; H. O., Philadelphia Gen. Hosp., 1931-33; *Harvey Cushing Fellow, P. B. B. H., Nov. 1, 1933-Mar. 1, 1934; Asst. Res. Phys., ibid.*

SEELY, HALL

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SHAMBAUGH, PHILIP

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SHILLITO, FREDERICK H.

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SOSMAN, MERRILL C.

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STEAD, JR., EUGENE ANSON

B.S., Emory Univ., 1928; M.D., *ibid.*, 1932; *Med. H. O.*, *P. B. B. H.*, June 15, 1932-Nov. 1, 1933; Research Fellow in Med., Harv., 1933-34; *Vol. Grad. Asst.*, *P. B. B. H.*, 1933-34; *Surg. H. O.*, *P. B. B. H.*

STONE, HARRY

D.M.D., Tufts, 1932; *Dental Interne*, *P. B. B. H.*, July 1, 1932-July 1, 1933; Asst. in Oral Surg., Beth Israel Hosp.; in practice, Boston.

STROCK, MOSES SOLOMON

D.M.D., Harv., 1923; Asst. in Extract. and Oral Surg., Harv., 1923-25; Instr. in Extract. and Oral Surg., *ibid.*, 1925-30; Anesthetist, Forsyth Dental Infirmary, 1925-30; Instr. in Oral Surg., Harv.; Asst. Dental Surg., M. G. H.; *Dental Surg.*, *P. B. B. H.*

SULLIVAN, GEORGE ARNOLD

A.B., Catholic Univ., Washington, D. C., 1929; D.M.D., Harv., 1933; Asst. in X-ray, Harv.; *Dental Interne*, *P. B. B. H.*

THOMPSON, KENNETH WADE

A.B., Leland Stanford, 1926; M.D., Harv., 1929; *Surg. H. O.*, *P. B. B. H.*, Jan. 1, 1930-May 1, 1931; Fellow in Surg. Research, Harv.; *Asst. Res. Surg.*, *P. B. B. H.*, Oct. 1, 1931-Mar. 1, 1933; *Cushing Fellow*, *ibid.*, Mar. 1-July 1, 1933.

THRASHER, IRVING D.

M.D., Johns Hopkins, 1931; Rotating Interne, Johns Hopkins, 1931-33; *Pathol. H. O.*, *P. B. B. H.*, Jan. 1, 1933-Sept. 23, 1933.

TREMAINE, MYRON JEWELL

B.A., Univ. of Ill., 1929; M.D., Northwestern, 1932; M.D., *ibid.*, 1933; *Med. H. O.*, *P. B. B. H.*

VOGT, EDWARD C.

M.D., Univ. of Iowa, 1923; Interne, St. Vincent's Hosp., Toledo, Ohio, 1923-24; *H. O.*, *X-ray Dept.*, *P. B. B. H.*, Sept. 12, 1924-

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March 1, 1925; Asst. Res. in Roent., ibid., March 1-Sept., 1925; Res. in Roent., New Haven Hosp., Oct., 1925-July, 1926; Roent., Children's Hosp., Boston; Roent., Huntington Mem. Hosp., 1928; Assoc. in Roent., P. B. B. H.

WAITE, J. HERBERT

M.D., Harv., 1916; Chief, Dept. of Ophthalmology, Harv.; *Consult. Ophthalmologist, P. B. B. H.*

WALCOTT, CHARLES F.

A.B., Harv., 1926; M.D., *ibid.*, 1931; *Med. H. O., P. B. B. H., Mar. 1, 1932-July 1, 1933; in practice, Cambridge, Mass.*

WALKER, ISAAC CHANDLER

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WALTER, CARL WALDEMAR

A.B., Harv., 1928; M.D., *ibid.*, 1932; *Surg. H. O., P. B. B. H.*

WELLER, JR., G. LOUIS

B.A., Johns Hopkins, 1927; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H., Oct. 15, 1932-Mar. 1, 1933; in practice, Washington, D. C.*

WILHELM, NORBERT A.

B.S., St. Louis Univ., 1922; M.D., *ibid.*, 1925; Interne, Mercy Hosp., Toledo, Ohio, 1925-26; Chief Res. Phys., Lucas Co. Hosp., Toledo, Ohio, 1926-27; Asst. Plantation Surg., Estates of Central Aguirre, Porto Rico, 1927-29; Asst., Div. of Neuropsychiatry, Henry Ford Hosp., 1929-30; *2nd Asst. Supt., P. B. B. H., July 20, 1930-Mar. 5, 1934; 1st Asst. Supt., ibid.*

WILKINS, GEORGE FRANKLIN

A.B., Holy Cross, 1928; M.D., Harv., 1932; *Surg. H. O., P. B. B. H., Oct. 1, 1932-Feb. 1, 1934.*

WOLBACH, SIMEON BURT

Stud., Harv., 2 yrs.; M.D., *ibid.*, 1903; 2nd Asst. in Pathol., B. C. H., 1903-04; 1st Asst. in Pathol., *ibid.*, 1904-05; 2nd Asst. Visit. Pathol., *ibid.*, 1905-08; Pathol., Long Island Hosp., Boston, 1905-08; Pathol., Boston Floating Hosp., 1905-08; Pathol., Mass. Infants' Asylum, 1905-08; Asst. in Pathol., Harv., 1905-06; Instr.

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in Pathol., *ibid.*, 1906-08; Adjunct Prof. of Pathol. and Bacteriol., Albany Med. Coll., 1908-09; Director, Bender Hygienic Lab., Albany, New York, 1908-09; Pathol., Albany City Hosp., 1908-09; Pathol., St. Peter's Hosp., Albany, 1908-09; Pathol., St. Margaret's House, Albany, 1908-09; Lecturer in Pathol., McGill Univ., 1909-11; Director, Histol. Lab., *ibid.*, 1909-11; Director, Montreal Gen. Hosp. Lab., 1909-11; Asst. Prof. of Bacteriol., Harv., 1910-14; Assoc. Prof. of Bacteriol., *ibid.*, 1914-16; Pathol., Children's Hosp., Boston; in charge of Typhus Research Hosp., Poland, Jan.-Aug., 1920; Fellow, Am. Acad. of Arts and Sciences, 1914; Visit. Pathol., Children's Hosp., Boston, 1915; Corr. Mem. Société de Pathologie Exotique, Paris; Commander, Order of Polonia Restituta; Shattuck Prof. Pathol. Anat., Harv.; *Pathologist, P. B. B. H.*

WOOD, CORNELIUS B.

A.B., Mich. State Univ., 1926; M.D., Univ. of Mich., 1930; Fellow in Pathol., *ibid.*, 1930-31; H. O., Presbyterian Hosp., Chicago, 1931-32; Arthur Tracy Cabot Fellow, Harv., 1932-33; *Jr. Assoc. in Surg., P. B. B. H., Aug. 15, 1932-July 1, 1933; Asst. Res. Surg., P. B. B. H.*

WOOD, NATHANIEL KNIGHT

A.B., Harv., 1897; M.D., *ibid.*, 1901; H. O., B. C. H., 1902-04; H. O., Boston Lying-In Hosp., 1904; Visit. Phys., Carney Hosp., O. P. D., 1907-12; Visit. Phys., Boston Consumptives' Hosp., O. P. D., 1909-17; Phys., Boston Disp., 1912-18; *Assoc. in Med., P. B. B. H.*

WOSIKA, PAUL H.

B.S., M.D., Northwestern Univ., 1931; Interne, Passavant Mem. Hosp., Chicago, 1930; Res. in Gynecology, *ibid.*, 1931; *Asst. Res. Phys., P. B. B. H., 1931-33; Vol. Grad. Asst., P. B. B. H.*

ZINSSER, HANS

A.B., Columbia, 1899; A.M., M.D., *ibid.*, 1903; Sc.D., Hon. Caus., *ibid.*, 1929; Sc.D. Hon. Causa., Western Reserve Univ., 1931; House Staff, Roosevelt Hosp., 1903-05; Bacteriologist, *ibid.*, 1905-06; Asst. Bacteriologist, Columbia Univ., 1905-06; Asst. Pathol., St. Luke's Hosp., 1907-10; Instr. in Bacteriology, Columbia, 1908-10; Assoc. Prof. Bact., Leland Stanford Univ., 1910-11; Prof. of Bact., *ibid.*, 1911-13; Prof. Bact., Columbia, 1913-23; Bacteriologist, Presbyterian Hosp., 1913-23; Consult. Bact., Children's Hosp., Boston; Professor of Bacteriology, Harv.; *Consult. Bacteriologist, P. B. B. H.*

ZOLLINGER, ROBERT

B.S., Ohio State Univ., 1924; M.D., *ibid.*, 1927; H. O., Inst. for Feeble Minded, Columbus, Ohio, 1925-27; *Surg. H. O., P. B. B. H., Jan. 1, 1928-May 1, 1929; Asst. Phys., Inst. for Feeble Minded, Columbus, Ohio, 1929; Asst. Res. Surg., Lakeside Hosp., Cleveland, Ohio, July, 1929-July, 1930; Crile Fellow in Surg., Western Reserve Univ., Cleveland, July, 1930-July, 1931; Asst. Res. Surg., Lakeside Hosp., Cleveland, July, 1931-July, 1932; Res. Surg., *ibid.*, July, 1932-Sept., 1932; Instr. in Surg., Harv.; *Res. Surg., P. B. B. H.**

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ADAMS, FRANK DENNETTE

Litt.B., Princeton, 1913; M.D., Harv., 1917; Med. H. O., M. G. H., 1917-18; 1st Lieut., M. C., U. S. Army, 1918-19; *Pathol. H. O., P. B. B. H., Oct. 1, 1919-March 15, 1920; Act. Res. Pathol., ibid., March 15-July 1, 1920*; Res. Phys., B. C. H., 1920-22; Lect. in Med., Univ. of N. C., Extension Div., 1922 and 1923; H. O., So. Dept., B. C. H., 1922; Assoc. in Therapeutics, George Washington Univ.; Instr. in Med., Georgetown Univ., 1923; Assoc. Phys., M. G. H.; Asst. in Med., Harv., 1923-29; Instr. in Med., Harv.; in practice, Boston.

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M.D., C.M., McGill, 1927; Interne in Pathol., Montreal Gen. Hosp., 1927-28; Interne in Med., *ibid.*, 1928-29; Interne in Surg., *ibid.*, 1929-30; *Asst. Res. Phys., P. B. B. H., September 1, 1930-July 1, 1932*; Asst. Demonstr. in Med., McGill; Asst. in Med., Montreal General Hosp.; in practice, Montreal, P. Q., Canada.

ALEXANDER, HARRY LOUIS

A.B., Williams, 1910; M.D., Columbia, 1914; H. O., Presbyterian Hosp., New York, 1914-16; *Asst. Res. Phys., P. B. B. H., Sept. 15, 1916-July 6, 1917*; Major, M. C., U. S. Army; Instr. in Med., Cornell, 1919-24; Asst. Adjunct Attend. Phys., 2nd Med. Div., Bellevue Hosp., New York, 1919-24; Attend. Phys. and Visit. Pathol., Overlook Hosp., Summit, New Jersey, 1920-24; Chief of Asthma Dept., Cornell Pay Clin., New York, 1921-24; Editor, Journal of Allergy; Assoc. Prof. Med., Washington Univ., and Assoc. Phys., Barnes Hosp., and St. Louis Maternity Hosp., St. Louis.

ALT, HOWARD L.

B.S., Northwestern Univ., 1923; M.D., *ibid.*, 1924; H. O. in med. and surg., *ibid.*, July, 1923-July, 1925; *Asst. Res. Phys., P. B. B. H., July 1, 1925-Sept. 1, 1927*; Teaching Fellow in Med., Harv.; *Res. Phys., P. B. B. H., Sept. 1, 1927-Sept. 1, 1929*; Asst. in Kaiser Wilhelm Inst. für Biologie, Berlin, Prof. Warburg, Oct., 1929-April, 1930; Asst. in Med. Clin., Univ. of Würzburg, Prof. Grafe, May-Aug., 1930; Assoc. in Med. and Instr. in Chemistry, Northwestern Univ. Med. Sch., and Passavant Mem. Hosp., Chicago.

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ARMSTRONG, WILBER P.

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A.B., Colorado Coll., 1914; M.D., Harv., 1918; C.P.H., Johns Hopkins, 1920; Dr. P.H., *ibid.*, 1921; *Med. H. O., P. B. B. H., March 1, 1918-April 15, 1919*; Dept. of Hygiene, Hunan-Yale College of Med., Changsha, Hunan, China, 1921-25; Inst. Epidemiology, Harv. Sch. Public Health, 1925-27; Comm. of Health, Cattaraugus Co. Dept. of Health, Olean, New York.

BAGLEY, JR., CHARLES

M.D., Univ. of Md., 1904; A.B., Loyola, 1911; Asst. Res. Phys., Univ. Hosp., Baltimore, 1904-05; Asst. Res. Surg., *ibid.*, 1905-06; Med. Supt., Hebrew Hosp., Baltimore, 1906-10; *Asst. Res. Surg., P. B. B. H., Jan. 1, 1913-Jan. 1, 1914*; Major, M. C., U. S. Army, 1917-19; Visit. Surg. Sinai Hosp., Church Home and Infirm., St. Agnes' Hosp., Bon Secours Hosp.; W. Baltimore Gen. Hosp., Maryland Gen. Hosp., and Union Mem. Hosp., Baltimore; Consult. Surg., Baltimore Eye, Ear and Throat Charity Hosp., etc.; Assoc. in Exper. Neurol., Johns Hopkins; Asst. Psychiatrist, J. H. H., Baltimore; Consult. Neuro-Surgeon, U. S. P. H. S.; in practice, Baltimore.

BAILEY, PERCIVAL

B.S., Univ. of Chicago, 1914; Ph.D., *ibid.*, 1918; M.D., Northwestern Univ., 1918; Asst. in Embryology, Univ. of Chicago, 1914; Asst. in Anatomy, *ibid.*, 1914-15; Asst. in Anatomy, Northwestern Univ., 1915-17; Assoc. in Anat., Univ. of Chicago, 1917-18; Surg. H. O., Mercy Hosp., Chicago, 1918-19; *Asst. Res. Surg., P. B. B. H., April 1-Dec. 19, 1919*; Res. Phys., Neurol. Service, Cook County Hosp., Chicago, 1920; Res. Phys., Psychopathic Hosp., Chicago, 1920; Arthur Tracy Cabot Fellow, Harv., 1920-21; *Assoc. in Surg., P. B. B. H., Sept. 1, 1920-July 1, 1921*; Asst. Etranger à la Salpêtrière, Paris, 1921-22; *Jr. Assoc. in Surg., P. B. B. H., July, 1922-Sept., 1923*; Asst. Etranger à l'Hospice Sainte Anne, Paris, 1925-26; Instr. in Surg., Harv.; *Assoc. in Surg., P. B. B. H., 1926-28*; Prof. Surg., Univ. of Chicago.

BALDWIN, LOUIS B.

Litt. B., Princeton, 1915; M.D., Columbia, 1919; Interne, Presbyterian Hosp., New York, April, 1919-July, 1920; Interne, Sloane Hosp., New York, Sept., 1920-Dec., 1920; Assoc. in Med., Presbyterian Hosp., New York, Jan., 1921-July, 1921; *Asst. Res. Phys. (acting) P. B. B. H., Dec. 20, 1921-Feb. 1, 1922*; Asst. Prof. and

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Instr. in Med., Strong Mem. Hosp., Rochester, N. Y.; Phys., Rochester Gen. Hosp., Rochester, N. Y.; Grunow Clin., Phoenix, Ariz.

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A.B., Oklahoma Univ., 1912; B.S., *ibid.*, 1915; M.A., *ibid.*, 1916; M.D., *ibid.*, 1918; *Med. H. O., P. B. B. H., Nov. 1, 1916-Oct. 1, 1919*; Instr. in Med. and Allergy, Univ. of Oklahoma Med. School; Assoc. Prof. Med. and Allergy, *ibid.*; Consult. Phys., St. Anthony's Hosp. and State Univ. Hosp., Oklahoma City; in practice, Oklahoma City, Oklahoma.

BARKER, M. HERBERT

B.S., Univ. of Chicago, 1923; M.S., Northwestern Univ., 1930; M.D., Rush Med. College, 1925; H. O., Wesley Memorial Hosp., 1925-27; *Med. H. O., P. B. B. H., Jan. 1-March 1, 1927*; *Asst. Res. Phys., ibid., July 1, 1927-July 1, 1929*; Res. Phys., Passavant Mem. Hosp., Chicago; Consult. in Cardio-Renal Diseases, Hines Mem. Hosp.; Director, Renal Clin., Northwestern Univ. Med. Clin.; Assoc. in Med., Northwestern Univ.

BARR, JOSEPH SEATON

B.S., College of Wooster, Wooster, Ohio, 1922; M.D., Harv., 1926; Stud. H. O., Huntington Mem. Hosp., 1924-25; *Surg. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927*; P. G. course, Orth. Surg., Children's Hosp. and M. G. H., Jan., 1928-Sept., 1929; Asst. Orthopedic Surg., M. G. H.; Asst. Surg., N. E. Peabody Home for Crippled Children; Asst. in Orthopedic Surg., Harv.

BARROW, WILLIAM HULBERT

A.B., Harv., 1908; M.D., *ibid.*, 1916; *Med. H. O., P. B. B. H., Nov. 1, 1916-June 17, 1917*; Lieut. and Capt., M. C., U. S. Army, 1917-21; Med. Advisor, Middlesex School, Concord, Massachusetts, 1921-22; Med. Advisor and Prof. of Phys. Education, Stanford Univ., 1922-27; Asst. Clin. Prof. Med., *ibid.*, 1926-27; Assoc. Clin. Prof. Med., *ibid.*, 1927-28; Staff member, Mercy and Scripps Memorial Hospitals; Member, Visiting and Consult. Staff, San Diego Co. Hosp.; Chairman, Med. Section, *ibid.*; in practice, San Diego, Calif.

BECK, CLAUDE S.

A.B., Franklin and Marshall College, 1916; Grad. Sch., Univ. of Pittsburgh, 1916-17; M.D., Johns Hopkins, 1921; Res. H. O., J. H. H., 1921-22; Asst. Res. Surg., New Haven Hosp., 1922-23; Arthur Tracy Cabot Fellow, Harv., and *Assoc. in Surg., P. B. B. H., 1923-24*; in charge Surg. Lab., Western Reserve Univ., Cleveland, Ohio, 1924-25; Instr. in Surg., Western Reserve Med. School; Res. Surg., Lakeside Hosp., Cleveland, 1925-26; *Asst. Res. Surg., P. B. B. H., April 9-June, 1927*; Instr. in Surg., Western Reserve Univ. School of Med.; Asst. Surg., Lakeside Hosp., 1927-28; Assoc. Surg., *ibid.*; Asst. Prof. Surg., Western Reserve Univ. Sch. of Med., 1928-33; Assoc. Prof. Surg., *ibid.*

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M.D., Univ. of Cal., 1920; Fellow, Hooper Research Laboratories, *ibid.*; Asst. in Urol. Surg., Univ. Hosp., for a year; *Asst. Res. Surg.*, *P. B. B. H.*, July 1, 1922-July 1, 1923; in practice, Los Angeles.

BENET, GEORGE

Student for 3 yrs., Univ. of S. C., and Univ. of Va.; M. D., Harv., 1913; *Med. H. O.*, *P. B. B. H.*, June 1, 1913-July 1, 1914; Sr. Surg. H. O., St. Luke's Hosp., Chicago, July 1, 1914-Jan. 1, 1915; Lab. Asst., Harv. Unit, Am. Ambulance Hosp., Paris, France, 1915; Surg. at French Hosp. near Annel, 1915-16; Capt. and Asst. Surg., 2nd Harv. Unit, B. E. F., France, 1916; Res. Phys., Collis P. Huntington Mem. Hosp., 1916-17; Surg., Fulham Military Hosp., London, England, 1917; M. R. C., U. S. Army, 1917-18; Capt., M. C., U. S. Army; Battalion Med. Officer to 16th Devons Infantry Reg., (British) 1918; Awarded British Military Cross, 1918; Asst. Visit. Surg., Richland Co. Hosp.; Chief Surg., South Carolina State Hosp.; Attend. Surg., Newberry Co. Hosp.; Assoc. Staff, Marlboro Co. Hosp.; Consult., Gen. Surg., U. S. Veterans' Hosp.; in practice, Columbia, S. C.

BENNETT, GRANVILLE A.

B. S., Univ. of Iowa, 1923; M. D., *ibid.*, 1925; Surg. Interne, Iowa State Univ. Hosp., 1925-26; Clin. Asst. Pathol., Bacteriol. and Surgery, 1926-27; *Res. Pathol.*, *P. B. B. H.*, Sept. 1, 1927-Sept. 1, 1929; Instr. of Pathol., Harv.

BENTON, ROY WILMOT

Ph.B., Brown Univ., 1918; M.D., Harv., 1922; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1922-March 1, 1924; H. O., New York Nursery and Child's Hosp., 1924-25; H. O., Providence City Hosp., 1925; Resident Phys., *ibid.*, 1925-26; Asst. Supt., *ibid.*, 1926-28; Asst. Director, A. O. Smith Diag. Clin., Milwaukee, Wis., 1928-32; Health Commissioner, Village of Shorewood, Wis.; in practice, Milwaukee, Wis.

BERGLUND, HILDING

M.D., Univ. of Stockholm, 1916; S.D., *ibid.*, 1920; Asst. Phys., Stockholm Hosp., 1915-19; Asst. Prof. Int. Med., Univ. of Stockholm, 1920; *Asst. Res. Phys.*, *P. B. B. H.*, July 5, 1921-Sept. 1, 1923; Asst. Prof. Medicine, Harv.; *Assoc. in Med.*, *P. B. B. H.*, Sept. 1, 1923-Nov. 1, 1925; Prof. of Med., Univ. of Minn., and Chief, Dept. of Med., Univ. Hosp., 1925-32; in practice, Stockholm, Sweden.

BERRY, ARTHUR N.

B.A., Univ. of the South, 1926; M.D., Harv., 1930; House Surg., Free Hosp. for Women, Aug. 1, 1930-March 31, 1931; *Surg. H. O.*, *P. B. B. H.*, April 1, 1931-May 1, 1932; *H. O.*, *B. L. I.*, May 1, 1932-November 15, 1932; in practice, Columbus, Ga.

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BERRY, FRANK BROWN

A.B., Harv., 1914; M.D., *ibid.*, 1917; Pathol. H. O., B. C. H., July-Dec., 1917; *Med. H. O., P. B. B. H., Jan. 9-March 1, 1918*; 1st Lieut. and Capt., M. C., U. S. Army, 1918-19; 1st Asst. Pathol., B. C. H., 1919-20; Surg. H. O., Presbyterian Hosp., New York, 1920-21; Practicing Med., Providence, Rhode Island, 1921-23; Res. Surg., Bellevue Hosp., New York, 1923-24; Assoc. in Surg., Columbia; Assoc. Surg., Bellevue & Fifth Ave. Hospitals; Consult. Surg., Nyack Hosp.; in practice, New York City.

BIRD, CLARENCE EDWARD

A.B., Univ. of Cal., 1920; M.D., Harv., 1923; Interne, Indian Harbor Hosp., Labrador, with Grenfell Mission, 1922; *Surg. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924*; Asst. in Surg. and Pathol., Yale, 1924-25; *Asst. Res. Surg., P. B. B. H., July 1, 1925-Oct. 1, 1926*; *Res. Surg., ibid., Oct. 1, 1926-Sept. 12, 1928*; Prof. of Surg., Univ. of Louisville; Surgeon-in-chief, Louisville City Hosp.

BISHOP, COURTNEY CRAIG

A.B., Yale, 1926; M.D., *ibid.*, 1930; *Surg. H. O., P. B. B. H., October 1, 1930-May 1, 1932*; *Asst. Res. Surg., ibid., May-September, 1932*; Asst. Res. Surg., N. Y. Hosp.; Asst. in Surg., Cornell Med. Sch.

BLAIN, DANIEL

B.A., Wash. and Lee Univ., 1921; M.D., Vanderbilt, 1929; *Med. H. O., P. B. B. H., Nov. 1, 1929-March 1, 1931*; Fellow in Psychiatry, Austen Riggs Foundation, Stockbridge, Mass., 1931-32; in practice, New York City.

BLAKE, FRANCIS GILMAN

A.B., Dart., 1908; M.D., Harv., 1913; *Med. H. O., P. B. B. H., July 1, 1913-Nov. 1, 1914*; *Asst. Res. Phys., ibid., Nov. 1, 1914-Sept. 1, 1915*; *Res. Phys., ibid., Sept. 1, 1915-Oct. 1, 1916*; Moseley Travelling Fellow (Harv.), 1916-17; Asst., Rockefeller Inst. Hosp., 1916-17; Asst. Prof. of Med., Univ. of Minn., 1917-19; Visit. Phys., Elliott Mem. Hosp., Univ. of Minn., 1917-19 (leave of absence Feb. 11, 1918-July 1, 1919); Assoc. in Med., Rockefeller Inst. Hosp., 1919-20; Assoc. Mem. in Med., Rockefeller Inst. Hosp., 1920-21; Mem., Board Scientific Directors, Rockefeller Inst. for Med. Research; Chairman, Div. Med. Sci., Nat. Research Council; Sterling Prof. of Med., Yale Univ., School of Med.; Phys.-in-Chief, New Haven Hosp., New Haven, Connecticut.

BLOSSER, HAROLD L.

A.B., Grinnell Coll., Grinnell, Iowa; M.D., Harv., 1925; *Pathol. H. O., P. B. B. H., Jan. 1, 1925-Jan. 1, 1926*; Grad. Asst. Roent., M. G. H., 1926; Surg. H. O., Lakeside Hosp., 1926-27; Asst. Res. Surg., *ibid.*, 1927-29; in practice, Portland, Ore.

BLUMGART, HERRMAN L.

B.S., Harv., 1917; M.D., *ibid.*, 1921; *Med. H. O., P. B. B. H., July 1, 1921-Nov. 1, 1922*; Moseley Traveling Fellow, Harv., 1923; Asst.,

PETER BENT BRIGHAM HOSPITAL

Thorndike Mem. Lab., B. C. H., 1924-28; Asst. in Med., Harv., 1924-27; Faculty Instr., *ibid.*, 1927-28; Asst. Prof. of Med., *ibid.*; 1928-29; Assoc. Prof. of Med., *ibid.*; Visit. Phys., Beth Israel Hosp.; Director, Med. Research, *ibid.*

BOEHM, JULIUS BENJAMIN

B.S., St. Louis Univ., 1910; M.D., Johns Hopkins, 1914; *Surg. H. O., P. B. B. H., Nov. 1, 1914-Nov. 1, 1915*; Res. Surg., Greenpoint Hosp., Brooklyn, New York, 1915-18; Surg. Serv., Walter Reed Hosp.; Chief Surg., Trinity Hosp., Brooklyn, New York.

BOGGS, ARTHUR GORDON

A.B., Dart., 1915; M.D., Harv., 1919; *Surg. H. O., P. B. B. H., March 15, 1919-July 1, 1920*; New Haven Hosp., New Haven, Connecticut; Med. Missionary, Clough Mem. Hosp., Ongole, South India.

BOOTH, GEORGE

B.S., Allegheny Coll., 1922; M.D., Harv., 1926; *Med. H. O., P. B. B. H., March 1, 1927-July 1, 1928*; in practice, Pittsburgh, Pa.

BOOTHBY, WALTER MEREDITH

A.B., Harv., 1902; M.D., *ibid.*, 1906; A.M., *ibid.*, 1907; European clinics for 8 mos., 1907-08; Surg. H. O., B. C. H., 1908-09; Asst. in Anat., Harv., 1910-14; Asst. in Anesthesia, Harv. Grad. School of Med., 1912-13; Sheldon Travelling Fellow, Harv. (Oxford Univ., largely); Anesthetist, B. C. H., 1912; *Supervisor of Anesthesia, P. B. B. H., Dec. 11, 1913-Nov. 14, 1916*; Lect. on Anesthesia and Instr. in Anat., Harv., 1914-16; Capt. and Major, M. C., U. S. Army, 1917-19; Assoc. Prof. of Med., Mayo Foundation, Univ. of Minn.; Head of Sect. of Clin. Metabolism, Mayo Clinic, Rochester, Minn.

BOWEN, JOSEPH ANDREW

M.D., Univ. of Cincinnati, 1925; Interne, Cinn. Gen. Hosp., 1925-26; Fellow in Surg., Cleveland Clin., 1926-28; *Asst. Res. Surg., P. B. B. H., July 15, 1928-July 15, 1929*; in practice, Louisville, Ky.

BOWIE, MORRIS A.

A.B., Univ. of Col., 1925; M.D., Harv., 1929; *Med. H. O., P. B. B. H., July 1, 1929-Nov. 1, 1930*.

BOYD, DOUGLAS

Univ. of Ga.; M.D., Harv., 1922; H. O., Robert Brigham Hosp., Boston, 1921-22; Asst. Res. Phys., Boston Sanatorium, 1922-23; *Surg. H. O., P. B. B. H., March 1, 1923-July 1, 1924*; *Act. Asst. Res. Surg., ibid., July 1-Aug. 1, 1924*; Asst. in Med., Rockefeller Inst., 1924-25; Asst. Res. Phys., Hosp. of Rockefeller Inst.; Asst. Res. Surg., Lakeside Hosp., 1925-26; Res. Orthopedic Surg., Rainbow Hosp., Cleveland, Ohio, 1926; Clin. Asst. in Med., Northwestern Univ. Med Sch.; in practice, Highland Park and Chicago, Ill.

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BOYD, WALTER WILLARD

E.E., Univ. of Va., 1920; M.S., M. I. T., 1922; M.D., Harv., 1928; *Surg. H. O., P. B. B. H., Oct. 1, 1928-Feb. 1, 1930*; House Phys., B. L. I., 1930-31; *Asst. Res. Surg., P. B. B. H., April 1, 1931-Jan. 15, 1932*; Asst. Res., Boston Lying-In Hosp., 1932-33; Resident, *ibid.*

BOYDEN, HORACE MAYO

A.B., Univ. of Oregon, 1927; M.D., Univ. of Mich., 1930; *Med. H. O., P. B. B. H., Nov. 1, 1930-Feb. 3, 1931. Died Feb. 3, 1931.*

BOYES, JOSEPH H.

A.B., Stanford, 1926; M.D., *ibid.*, 1930; H. O., Pathol., M. G. H., July, 1929-June, 1930; *Surg. H. O., P. B. B. H., July 1, 1930-November 1, 1931*; Res. Surg., Stanford Univ. Med. Sch. Hosps., San Francisco, 1931-32; Asst. in Surg., Stanford Univ. Sch. of Med. & Clin. Instr. in Surg.; in practice, San Francisco.

BRADLEY, JOHN I.

A.B., Georgetown Univ., 1920; M.D., Harv., 1925; Pathol. Interne, B. C. H., 1925; *Surg. H. O., P. B. B. H., Nov. 1, 1925-March 1, 1927*; Asst. Pathol., M. G. H.

BRIGHAM, FERDINAND

A.B., Tufts Coll., 1912; D.M.D., H.D.S., 1915; *Dental Surg., P. B. B. H., March 13, 1919-Jan. 20, 1920*; Capt., R. A. M. C., 1915-19; Degree, Dental Surg., Fac. of Med., Paris; in practice, 95 Ave. des Champs Elysees, Paris.

BRIGHAM, ROBERT B.

A.B., Williams, 1924; M.D., Harv., 1928; *Surg. H. O., P. B. B. H., Oct. 1, 1928-June 1, 1929 (resigned)*; H. O., Good Samaritan Hosp., Portland, Ore., July, 1929-July, 1930; in practice, Northampton, Mass.

BRILL, SELLING

A.B., Stanford, 1920; M.A., *ibid.*, 1922; M.D., Harv., 1924; *Surg. H. O., P. B. B. H., Nov. 1, 1924-March 1, 1926*; Hunter Fellow in Surg., Univ. Hosp., Philadelphia, Pennsylvania; Asst. in Surg., Univ. of Calif.; *Died Jan. 23, 1932.*

BRITTINGHAM, HAROLD HIXON

A.B., Yale, 1916; M.D., Harv., 1920; *Med. H. O., P. B. B. H., July 1, 1920-Nov. 1, 1921*; *Asst. Res. Phys., ibid., Nov. 15-Dec. 6, 1921*; Demonstr. Physiol., Western Reserve Univ., 1922-23; Demonstr. in Med., *ibid.*; Asst. Visit. Phys., Cleveland City Hosp., 1923-30; Visit. Phys., *ibid.*; in practice, Cleveland, Ohio.

BROWN, CHARLES LEONARD

B.S., Univ. of Oklahoma, 1919; M.D., *ibid.*, 1921; *Med. H. O., P. B. B. H., March 1, 1922-July 1, 1923*; Res. Pathol., Children's Hosp., 1923-24; Instr. in Pathol., Harv.; *Res. Pathol., P. B. B. H., July 1,*

PETER BENT BRIGHAM HOSPITAL

1924-Sept. 1, 1925; Teaching Fellow in Med., Harv.; *Res. Phys.*, *P. B. B. H.*, Sept. 1, 1925-Sept. 1, 1927; Instr. in Med., Harv.; *Jr. Assoc. in Med.*, *P. B. B. H.*, Sept., 1927-July, 1928; Asst. Prof. Int. Med., Univ. of Mich., July, 1928-July, 1929; Assoc. Prof. Int. Med., *ibid.*

BROWN, WILLIAM EUSTIS

Ph.B., Lafayette Coll., 1909; C.P.H., Harv.-M. I. T., Sch. of Public Health, 1915; M.D., Harv., 1920; *Surg. H. O.*, *P. B. B. H.*, Oct. 15, 1920-Feb. 20, 1922; Surg.-in-Chief, N. J. Zinc Co. Hosp., Franklin, New Jersey, 1922-24; Asst. Prof. Preventive Med., Univ. of Cinn., 1924-26; Assoc. Prof. Preventive Med., *ibid.*

BRYANT, JOHN

A.B., Harv., 1903; Asst. Res. Surg., Free Hosp. for Women, Brookline, 1905-06; M.D., Harv., 1907; Instr. in Pathol. and Neuropathol., *ibid.*, 1907-08; Surg. House Pupil, M. G. H., 1908-10; Private Asst. to Dr. S. J. Mixter, 1910-12; Research in Europe, 1912, 1913, and 1914; Asst. in Anat., Harv., 1913-18; Grad. Asst., M. G. H., O. P. D., 1915-16; Asst. to Phys.-in-Chief, Robert B. Brigham Hosp., 1915-16; *Vol. Asst.*, *P. B. B. H.*, July, 1916-Jan., 1917; *Assoc. in Med.*, *ibid.*, Jan. 1, 1917-Jan. 1, 1918; Major, M. C., U. S. Army, 1917-19; Secretary, American Gastro-Enterological Assn., 1923-27; Medical Asst. in Problems of Convalescence, M. G. H.; Consultant to Burke Foundation for Convalescents, New York; in practice, Boston.

BUCK, ROBERT WILLIAM

A.B., Butler Coll., 1914; A.M., Columbia, 1915; M.D., Harv., 1921; Asst. Res., Boston Hosp. for Consumptives, 1921; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1921-March 1, 1923; H. O., Boston Lying-In Hosp., 1923; Physician, Med. Dept., Boston Disp.; Asst. Prof. Prev. Med., Tufts Medical School; in practice, Boston.

BUCKLEY RICHARD COTTER

B.S., Trinity, 1919; M.D., Yale, 1924; Res. Pathol., New Haven Hosp., 1924-27; Instr. in Pathol., Yale Medical School, 1924-27; *Surg. H. O.*, *P. B. B. H.*, June 15, 1927-Nov. 1, 1928; *Jr. Assoc. in Surg.*, *ibid.*, Nov. 1, 1928-Nov. 1, 1929; *Asst. Res. Surg.*, *ibid.*, Nov. 1, 1929-April 1, 1930; Asst. Surg., St. Francis Hosp., Hartford, Connecticut; in practice, Hartford, Connecticut.

BUHRMESTER, JR., HARRY C.

M.D., Harv., 1930; H. O., Church Home and Infirmary, Baltimore, Maryland, 1930-31; *Med. H. O.*, *P. B. B. H.*, Feb. 15, 1931-Nov. 1, 1931; in practice, Boston.

BURLINGHAM, LOUIS HERBERT

A.B., Yale, 1902; M.D., Johns Hopkins, 1906; House Pupil, M. G. H., 1906-07; Asst. Res. Phys., *ibid.*, 1907-12; Asst. Adm., *ibid.*, 1912; *First Asst. Supt.*, *P. B. B. H.*, Oct. 19, 1912-April 30, 1917; *Curator*, *ibid.*, May 8, 1913-May 10, 1917; Lect. on Hosp. Adm., Washing-

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ton Univ. Med. Sch.; Assoc. Editor, Modern Hosp.; Supt., Barnes Hosp., St. Louis, Missouri; Administrator, St. Louis Children's Hosp., 1917-25; Mem., Med. Council to U. S. Vet. Bureau; Pres., Mo. Hosp. Assoc., 1921-22; Trustee, Mid-West Hosp. Assoc.; Director, Central Bureau for Homeless Men, St. Louis; Trustee, A. H. A., 1919-21; President, A. H. A., 1928-29.

BUTLER, STUYVESANT

Ph.B., Yale, 1924; M.D., Univ. of Chicago, 1928; Interne, Presbyterian Hosp., Chicago, Ill.; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1929-May 1, 1930*; in practice, Clinic of Dr. Ralph C. Brown, Chicago.

BYSSHE, STANLEY M.

A.B., Harv., 1927; M.D., *ibid.*, 1931; *Surg. H. O., P. B. B. H., April 1, 1931-August 1, 1932*; H. O., Sloane Hosp. for Women, New York City, January 1, 1933-January 1, 1934; *Asst. Res. in Gynecology, ibid.*

CADBURY, WILLIAM WARDER

A.B., Haverford, 1898; A.M., *ibid.*, 1899; M.D., Univ. of Pa., 1902; Res. Phys., Pa. Hosp., 1903-05; Stud. in Vienna, 1905; Grad., London Sch. of Hygiene and Trop. Med., 1928; Instr. in Pathol. and Pharmacodynamics, Univ. of Pa., 1906-07; Pathol., St. Mary's Hosp., Philadelphia, 1906-07; Pathol., Henry Phipps Inst. for the Study, Treatment and Prevention of Tuberculosis, 1908-09; Visit. Phys., Free Hosp. for Poor Consumptives, White Haven, Pennsylvania, 1908-09; *Asst. Res. Phys., P. B. B. H., Nov. 1, 1915-March 1, 1916*; College Phys., Lingnan Univ., Canton, China; Supt. and Internist, Canton Hosp., Canton, China.

CAIRNS, HUGH WILLIAM BELL

M.B., B.S., Univ. of Adelaide, 1917; Rhodes Scholar, Oxford, 1919-20; F.R.C.S., England, 1921; War service, 1915-18; House Surg., Radcliffe Infirmary, Oxford, 1920-21; House Surg., London Hosp., 1921; Pathol. Asst., *ibid.*, 1921-22; House Phys., *ibid.*, 1922; Asst. in Surg. Unit, London Hosp., 1923; Surg. First Asst., *ibid.*, 1924-25; Asst. Surg., *ibid.*, 1926; Hunterian Prof., R. C. S., 1925-26; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1926-Sept. 15, 1927*; Asst. Surg., London Hosp., London, England; *Asst. Res. Surg., P. B. B. H., Sept. 5-Sept. 19, 1930.*

CALHOUN, ABNER W.

A.B., Univ. of Ga., 1918; M.D., Harv., 1923; 2 mos. in tuberculosis work, Ray Brook, New York; Med. H. O., B. C. H., March 1, 1924-Nov. 15, 1925; *Asst. Res. Phys., P. B. B. H., Nov. 15, 1925-Sept. 1, 1927*; Chief Res., Grady Hosp., Atlanta, Ga., 1927-28; Assoc. in Med., Emory Univ.; Phys. in Charge, J. J. Gray Clin.; in practice, Atlanta, Ga.

CARR, GLADYS LYDIA

M.D., Tufts, 1906; H. O., N. E. Hosp. for Women and Children, 1906-07; Asst. on Maternity Staff, *ibid.*, 1907-08; Gen. Practice,

PETER BENT BRIGHAM HOSPITAL

Boston, 1907-08; Private Practice, Lynn, 1908-14; Head of Roent. and Electrotherapeutic Depts., N. E. Hosp. for Women and Children; *Roentgenologist, pro tempore, P. B. B. H., June 1, 1914-Feb. 1, 1916; Roentgenologist, ibid., Feb. 1, 1916-Oct. 31, 1917; Roentgenologist, American Comm. for Relief in the Near East, Asia Minor; Roentgenologist, Finley Hosp., Dubuque, Iowa.*

CARTER, JR., DAVID WENDEL

A.B., Southwestern Univ., 1909; A.M., *ibid.*, 1910; M.D., Johns Hopkins, 1914; H. O., Clifton Springs Sanitarium, 1914; *Med. H. O., P. B. B. H., Jan. 4, 1915-July 1, 1916; Asst. Res. Phys., J. H. H., 1916-17; Res. Phys. in charge of Private Wards, ibid., 1917-18; 1st Lieut., M. C., U. S. Army, 1917-19; Visit. Phys., Parkland Hosp., Dallas; Assoc. Prof. of Med., Baylor Univ., Dallas; Mem. Staff, Baylor Hosp.; Chairman, Med. Advisory Comm., Dallas Methodist Hosp.; in practice, Dallas, Texas.*

CARTY, JOHN RUSSELL

B.S., Princeton, 1917; M.D., Cornell, 1921; House Phys., New York Hosp., 1921-23; *X-ray H. O., P. B. B. H., July 1, 1923-July 1, 1924; Asst., Dept. of Radiology, M. G. H., April-Oct., 1925; Chief of Clin. in Roent., Cornell Univ. Med. Sch. Clin., New York; Assoc. Prof. Roent., ibid.; Radiologist in Chief, New York Hosp.*

CASHMAN, CHARLES J.

D.M.D., Harv., 1928; *Dental Interne, P. B. B. H., Oct. 1, 1930-Aug. 1, 1931; Asst. Instr. in Extraction and Anesthesia, Harv.; Grad. Asst., Dental Clin., M. G. H.; in practice, East Boston, Mass.*

CASTLE, EDWARD B.

B.S., Univ. of Mich., 1927; M.D., *ibid.*, 1929; *Surg. H. O., P. B. B. H., July 1, 1929-Nov. 1, 1930; Asst. Res. in Surg. and Acting Res. Surg., Vanderbilt Univ. Hosp., Nashville, Tenn.; 1930-31; in practice, Cleveland, Ohio.*

CHASE, HENRY MELVILLE

S.B., Dart., 1897; M.D., Harv., 1901; House Pupil, M. G. H., 1901-02; Asst. Surg., Boston Disp., 1906-14; Surg., Boston Disp.; Surg., Berkeley Infirmary; *Assoc. in Surg., P. B. B. H., Nov. 17, 1914-July 11, 1919; in practice, Boston.*

CHELEY, GLEN EVAN

A.B., Colorado Coll., 1916; M.D., Harv., 1920; *Surg. H. O., P. B. B. H., July 1, 1920-Nov. 1, 1921; H. O., Boston Lying-In Hosp., 1921-22; Asst. Prof. Surg., Univ. of Colorado Sch. of Med.; Assoc. Visit. Surg., Colorado Gen. Hosp.; in practice, Denver, Colorado.*

CHRISTIAN, JR., THOMAS D.

M.D., Harv., 1923; Med. H. O., B. C. H.; *Asst. Res. Phys., P. B. B. H., Jan. 1, 1925-Nov. 15, 1925; Jr. Assoc. in Med., ibid., Nov. 15, 1925-Oct. 1, 1926; in practice, Greensboro, North Carolina. Died January 12, 1929.*

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CLARK, JR., BURTON

B.S., Univ. of Wis., 1921; M.D., Harv., 1923; Interne, St. Luke's Hosp., Chicago, July 1, 1923-April 1, 1925; *Surg. H. O., P. B. B. H., May 1-Nov. 1, 1925*; Pathol. H. O., B. C. H., Nov. 1, 1925-Jan. 1, 1926; in practice, Oshkosh, Wisconsin, 1926-31; Asst. Res. Surg., Lakeside Hosp.

COBB, STANLEY

A.B., Harv., 1910; M.D., *ibid.*, 1914; *Surg. H. O., P. B. B. H., July 1, 1914-July 1, 1915*; Vol., Lab. of Physiol. Research, Johns Hopkins, 1915-16; Asst. in Physiol., *ibid.*; Asst. in Psychiatry, *ibid.*, 1916-17; Asst. in Psychiatry and Physiol. of the Nervous System, *ibid.*; Asst. Psychiatrist, *ibid.*, 1917-18; Assoc. in Psychiatry, *ibid.* (on leave of absence); 1st Lieut., M. C., U. S. Army, 1917-19; Asst. Neurol., M. G. H., 1919-20; Dalton Scholar, *ibid.*; Instr. in Neurol. and Physiol., Harv., 1919-23; Asst. Neurol., M. G. H.; Asst. Prof. of Neuropathol., Harv., 1923; Rockefeller Fellow in Europe, 1923-25; Visit. Phys. for Neurol., B. C. H.; Assoc. Prof. Neuropathol., Harv., 1926; Bullard Prof. Neuropathol., *ibid.*; Director, Neurol. Labs., B. C. H.

COCHRAN, H. WALTON

B.A., Univ. of Texas, 1924; M.D., Johns Hopkins, 1928; *Surg. H. O., P. B. B. H., Jan. 1, 1929-May 1, 1930*; Jr. Fellow in Surg., Presbyterian Hosp., New York; Fellow in Surg., *ibid.*; Instr. in Surg., College of Phys. and Surg., N. Y.

COLBY, FLETCHER H.

S.B., Dartmouth, 1914; M.D., Harv., 1918; served with B. C. H. unit, Evacuation Hosp. No. 110, during war; Surg. Interne, M. G. H., 1919-21; Ludlow-Jute Co., Ltd., Calcutta, India, 1921-23; *Asst. Res. Surg., P. B. B. H., Jan. 1, 1924-Jan. 1, 1925*; Jr. Assoc. in Urol., *ibid.*, Jan. 22, 1925-Oct. 1, 1926; *Act. Assoc. in Surg., ibid., July-Sept., 1927*; Assoc. Urologist, M. G. H.; Asst. in G. U. Surg., Harv.; Asst. Surg., Palmer Mem. Hosp.; Asst. Surg., Huntington Mem. Hosp.; in practice, Boston.

CONNOR, CHARLES LLOYD

Univ. Pittsburgh, 1913-17; M.D., Baylor Univ., Coll. of Med., 1920; Interne, St. Joseph's Hosp., Pittsburgh, 1920-21; Gen. Practice, Montana, 1921-22; Fellow in Med., Nat. Research Council, 1922-25; Research Fellow, Pathol., Harv., 1923-25; Instr. in Pathol., *ibid.*, 1925; Faculty Instr., *ibid.*, 1926-28; *Res. Pathol., P. B. B. H., Sept. 1, 1925-Sept. 1, 1926*; Acting Director, Pathological Laboratories, Montreal General Hosp. (leave of absence from Harvard, 1926-27); Assoc. Prof. Pathol. and Ex. Head, Dept. of Pathol., Univ. of Calif. Med. Sch., 1928-30; Prof. Pathol., *ibid.*

COOK, WARD HANCE

A.B., Univ. of Kans., 1909; A.M., *ibid.*, 1910; Fellow in Zoölogy, *ibid.*, 1909-10; Instr. in Embryology and Histology, *ibid.*, 1910;

PETER BENT BRIGHAM HOSPITAL

M.D., Harv., 1914; *Med. H. O., P. B. B. H., July 1, 1914-July 10, 1915*; 2nd Asst. in Pathol., B. C. H., 1915-16; 1st Asst. in Pathol., *ibid.*, 1916-17; Pathol., Long Island Hosp., Boston, 1917-21; Instr. in Pathol., Harv., 1917-21; Prof. of Pathol., Med. Coll. of Va., Richmond, Virginia, 1921-24; Assoc. Director, Wm. H. Singer Mem. Research Lab., Pittsburgh, Pennsylvania, 1925-26; Pathol., N. Y. Post Grad. Med. School and Hosp., 1926-28; Director, Bureau of Labs., Dept. of Health, Yonkers, N. Y.; Pathol., St. John's Riverside, Yonkers General, and St. Joseph's Hospitals, Yonkers, New York.

COULTER, A. BARKLIE

A.B., Catholic Univ. of America, 1918; M.D., Johns Hopkins, 1924; Asst., Trudeau Sanatorium, Saranac, 1924-25; Res. H. O., Royal Victoria Hosp., Montreal, 1925-26; *Jr. Assoc. in Med., P. B. B. H., Oct. 1, 1926-Sept. 1, 1927*; Head, Dept. of Med., Gallinger Municipal Hosp., Washington, D. C., 1930-31; in practice, Washington, D. C.

COUNCILMAN, WILLIAM THOMAS

M.D., Univ. of Md., 1878; Stud., Univs. of Vienna and Leipzig; Hon. A.M., Harv., 1899; Hon. A.M., Johns Hopkins, 1902; LL.D., Univ. of Md., 1907; LL.D., McGill Univ., 1911; LL.D., Western Reserve Univ., 1929; LL.D., St. John's College, Annapolis, Md., 1932; Asst. Prof. in Anat., Johns Hopkins, 1890-91; Shattuck Prof. of Pathol. Anatomy, Harv., 1892; Emeritus Prof., *ibid.*; *Consult. Pathol., P. B. B. H., March 25, 1912-Aug. 14, 1913*; *Pathol., ibid., Aug. 14, 1913-Dec. 1, 1916 (granted leave of absence from Nov. 9-Dec. 1, 1916)*; Mem., Dr. Hamilton Rice's Expedition to South America; Fellow, Am. Acad., 1895; Mem., Nat. Acad. of Sciences, 1904; Fellow, Philosophical Society, Philadelphia, 1918. *Died, May 27, 1933.*

CRISLER, JR., JOSEPH AUGUSTUS

B.S., Univ. of Va., 1917; M.D., Harv., 1921; F.A.C.S.; *Surg. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923*; in practice, Memphis, Tenn.

CROCKETT, EUGENE ANTHONY

Act. Consult. Otologist and Laryngologist, P. B. B. H., June 13, 1918-Dec. 31, 1919; *Died June 13, 1932.*

CRUMP, GEORGE CURTIS

B.S., Dartmouth, 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., April 1, 1928-Aug. 1, 1929*; Asst. Res. Phys., Trudeau San., Saranac Lake, New York, 1929-31; Asst. Phys., Metropolitan Life Ins. Co. San., 1931-33; Pathol., Biltmore Hosp., Asheville, North Carolina; in practice, Asheville, North Carolina.

CRUTCHFIELD, WILLIAM G.

A.B., Univ. of Ky., 1923; M.D., Johns Hopkins, 1927; Surg. Interne, Women's Hosp., Baltimore, Md., 1927-28; *Surg. H. O., P. B.*

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B. H., July 1, 1928-Nov. 1, 1929; Res. in Neuro-Surg., Memorial Hosp., Richmond, Va.

CUNNINGHAM, THOMAS DONALD

B.S., Dart., 1913; M.D., Harv., 1918; House Pupil, M. G. H., 1917-18; *Asst. Res. Phys.*, *P. B. B. H.*, March 1, 1919-July 1, 1920; House Pupil, Children's Med. Serv., M. G. H., 1920-21; Mem., Med. Staff, Denver City and County Hosp., St. Joseph's Hosp., St. Luke's Hosp., and Children's Hosp., Denver, Colorado; Staff, Colorado Gen. Hosp.; Asst. Prof. Med., Univ. of Col.; in practice, Denver, Col.

CURTIS, ROBERT DUDLEY

A.B., Harv., 1914; M.D., *ibid.*, 1918; *Med. H. O.*, *P. B. B. H.*, July 1, 1918-July 1, 1919; Pediatric H. O., M. G. H., 1918; Asst. Visit. Phys., *ibid.*, O. P. D., 1919; Med. Director, Boston Baby Hygiene Assoc.; Asst. in Pediatrics, Harv.; in practice, Boston.

CURTISS, ARTHUR NILES

A.B., Oberlin Coll., 1918; M.D., Syracuse Univ., 1923; Instr. in Physiol., Coll. of Med., Syracuse Univ., 1918-24; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1924-March 1, 1926; Asst. in Med. and Director of Students' Lab., Univ. Hosp., Syracuse, N. Y.; Instr. in Clin. Path. and Clin. Med., *ibid.*; Attend., Gen. Hosp. of Syracuse; in practice, Syracuse, N. Y.

DAVENPORT, LOWREY F.

B.S., Emory, 1927; M.D., Univ. of Rochester, 1931; *Med. H. O.*, *P. B. B. H.*, July 1, 1931-Nov. 1, 1932; Research Fellow in Med., Harv.

DAVIDOFF, LEO MAX

Two yrs. pre-med. work, Harv.; M.D., *ibid.*, 1922; Stud. Interne, Boston Psychopathic Hosp., April, 1921-June, 1922; Pediatric Serv., B. C. H., July-Nov., 1922; Med. Serv., New Haven Hosp., Nov. 1, 1922-Nov. 1, 1923; *Surg. H. O.*, *P. B. B. H.*, March 1, 1924-June 20, 1925; Surg., MacMillan Arctic Expedition, June 20, 1925-Oct. 1, 1925; *Asst. Res. Surg.*, *P. B. B. H.*, Nov. 1, 1925-Oct. 1, 1926; *P. B. B. H. Travelling Fellowship*, 1926-27; Asst. Neuro-Pathol., Psychiatric Inst. of the State of New York, 1927-28; Attend. Neuro-Surg., Beth Israel Hosp., New York City; Assoc. Attend. Neuro-Surg., N. Y. Neurol. Inst.; Instr. in Neurol., Coll. of Phys. and Surg., Columbia Univ.

DAVIDSON, LEONARD TOMB

A.B., Oberlin, 1912; M.D., Johns Hopkins, 1919; *Med. H. O.*, *P. B. B. H.*, Sept. 15, 1919-Nov. 1, 1920; Asst. Res. Phys., Presbyterian Hosp., New York, 1920-21; Res. Phys., St. Louis Children's Hosp., St., Louis, 1921-23; Assoc., Diseases of Children, Col. Physicians and Surgeons, New York; Asst. Attend. Phys., Babies' Hosp., N. Y.

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DAVIS, LOYAL

M.D., Northwestern Univ., 1918; M.S., *ibid.*, 1921; Ph.D. in Surg., *ibid.*, 1923; Nat. Research Council Fellow, 1922-24; *Jr. Assoc. in Surg.*, *P. B. B. H.*, March-Oct., 1924; Assoc. Prof. Surg., Northwestern Univ. Med. Sch., 1925-32; Prof. Surg. and Chairman, Div. of Surg., *ibid.*; Attend. Surg., Wesley Mem. Hosp., Passavant Mem. Hosp., and Michael Reese Hosp., Chicago; Consult. Neurol. Surg., Edward Hines, Jr., Mem. Hosp.

DAWSON, ROGER PAUL

A.B., Holy Cross, 1907; M.D., Harv., 1911; Med. H. O., Carney Hosp., Boston, 1911-12; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1912-Nov. 1, 1913; Fellow in Med., Harv., 1914-15; Phys., Carney Hosp., O. P. D., 1914-15; *Assoc. in Med.*, *P. B. B. H.*, July 1, 1915-Dec. 31, 1916; Asst. Phys., Boston Disp., O. P. D.; Phys. to O. P. D., M. G. H.; Asst. in Med., Harv.; in practice, Boston.

DAY, HILBERT FRANCIS

Ph.B., Yale, 1901; M.D., Harv., 1905; Surg. H. O., B. C. H., 1905-07; House Phys., Boston Lying-in-Hosp., 1907-08; 3rd Asst. Visit. Surg., B. C. H. (Gynecol. Dept.), 1908-09; District Phys., Boston Disp., 1909-12; Asst. Surg., Boston Disp., 1912-14; Surg., *ibid.*, 1914-19; Asst. in Surg., Harv., 1919-21; Instr. in Surg., *ibid.*; Prof. in Clin. Surg., Tufts; Surg.-in-chief, Boston Disp.; *Assoc. in Surg.*, *P. B. B. H.*, 1914-33; Consult. Surg., Mass. State Prison Colony, Norfolk, Massachusetts, and Masonic Hospital, Shrewsbury, Massachusetts.

DAYTON, THEODORE READ

A.B., Amherst, 1916; M.D., Harv., 1925; *Surg. H. O.*, *P. B. B. H.*, March 1, 1926-July 1, 1927.

DEAN, JR., ARCHIE LEIGH

B.S., Cornell, 1913; M.D., *ibid.*, 1917; *Surg. H. O.*, *P. B. B. H.*, May, 1917-Feb., 1918; 1st Lieut., M. C., U. S. Army, 1918-19; Assoc. Surg., Mem. Hosp., N. Y.; Assoc. Urol., Fifth Ave. Hosp., N. Y.; Visit. Urol., Reconstruction Hosp., N. Y.; Consult. Urol., Somerset Hosp., New York City; in practice, New York City.

DEROW, HARRY A.

M.B., Boston Univ., 1926; M.D., *ibid.*, 1927; Pathol. H. O., M. G. H., June, 1927-Jan., 1928; *Med. H. O.*, *P. B. B. H.*, March 1, 1928-July 1, 1929; Teach. Fellow in Med., Harv., 1929-30; Asst. in Med., *ibid.*; Res. Phys., Beth Israel Hosp., Aug., 1929-Aug., 1931; Med. Co-Ordinator, O.P.D., *ibid.*, September, 1931-March, 1933; Asst. Phys., *ibid.*; Director, O.P.D., *ibid.*; in practice, Boston.

DEVAN, THOMAS ALAN

B.S., Rutgers, 1906; M.D., Johns Hopkins, 1910; H. O., Presbyterian Hosp., New York, 1911-13; *Second Asst. Supt.*, *P. B. B. H.*, Aug. 1, 1913-May 1, 1917; *First Asst. Supt.*, *ibid.*, May 1, 1917-July

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1, 1919; 1st Lieut., M. C., U. S. Army, Nov. 5, 1918-Dec. 6, 1918; College Phys. and Prof. of Hygiene, Rutgers Coll., New Brunswick, New Jersey, July, 1919-July, 1925; Asst. Director, Strong Mem. Hosp., Rochester, New York, Sept., 1925-May, 1930; Supt., Eastern Maine Gen. Hosp., Bangor, Maine.

DIACK, SAMUEL

B.S., Chem. Engineering, Calif. Inst. of Tech., 1925; M.S., Physiol. Chem., Univ. of Mich., 1926; M.D., *ibid.*, 1930; *Med. H. O., P. B. B. H.*, July 1, 1930-Nov. 1, 1931.

DIAL, DONALD EMORY

B.A., Yale, 1925; M.D., *ibid.*, 1928; Pathol. Interne, New Haven Hosp., 1928-29; Fellow in Plastic Surg., Johns Hopkins Hosp., 1929-30; *Surg. H. O., P. B. B. H.*, Apr. 1, 1930-Aug. 1, 1931; Asst. Res. in Surg., Obst. and Gyn., New Haven Hosp., 1931-33; Res. in Orthopedics, *ibid.*

DOCK, WILLIAM

B.S., Wash. Univ., 1920; M.D., Rush Med. Coll., 1922; *Med. H. O., P. B. B. H.*, July 1, 1922-Nov. 1, 1923; *Asst. Res. Phys.*, *ibid.*, Nov. 1, 1923-Nov. 1, 1924; Grad. Stud., Vienna, Austria; Med. Res., Lane and Stanford Hosp., San Francisco, Calif.; Asst. Clin. Prof. Med., Stanford Univ.; Asst. Prof. Med., *ibid.*; Assoc. Prof., *ibid.*

DOEGE, PAUL FREDERICK

Univ. of Wis., 1917-20; Western Reserve Univ., 1920-22; M.D., Harv., 1926; *Pathol. H. O., P. B. B. H.*, Oct. 1, 1926-Jan. 1, 1927.

DONALD, DOUGLAS

B.S., Univ. of Mich., 1916; M.D., Harv., 1918; *Med. H. O., P. B. B. H.*, Feb. 12, 1918-March 1, 1919; *Asst. Res. Phys.*, *ibid.*, March 1-June 16, 1919; Henry Ford Hosp., 1919-20; Assoc. Prof. Med., Detroit Coll. of Med.; Attend. Phys., Receiving Hosp.; Asst. Phys., Harper Hosp.; Consult., Herman Kiefer Hosp.; in practice, Detroit, Mich.

DOTT, NORMAN McOMISH

M.B., Ch.B., Edinburgh; F.R.C.S., Edinburgh; *Jr. Assoc. in Surg.*, *P. B. B. H.*, Nov., 1923-June, 1924; Neurol. Surg., Royal Infirmary, Edinburgh and Jordanburn Nerve Hosp., Edinburgh; *Act. Asst. Res. Surg.*, *P. B. B. H.*, July-Aug., 1929; Surg., Royal Hosp. for Sick Children, Edinburgh; Lect. in Neurol. Surg., Edinburgh Univ.

DOTY, EDWIN J.

M.D., Univ. of Mich., 1929; *Med. H. O., P. B. B. H.*, Mar. 1, 1930-July 1, 1931; Asst. Phys., State Psychopathic Hosp., Ann Arbor, Mich., and Instr. in Psychiatry, Univ. of Mich. Med. Sch.

DOZIER, PAUL C.

A.B., Univ. of Calif., 1926; M.D., Harv., 1929; *Med. H. O., P. B. B. H.*, Nov. 1, 1929-March 1, 1931; Asst. Phys., Boston Psychopathic Hosp., 1931-32; Research Assoc., Neurol. Inst. of N. Y.

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DRINKER, CECIL KENT

B.S., Haverford, 1908; M.D., Univ. of Pa., 1913; S.D., Haverford, 1933; Vol. Asst., Dept. of Pharmacology, Univ. of Pa. Med. Sch., 1913-14; *Med. H. O., P. B. B. H., March 1, 1914-July 1, 1915*; Asst. in Physiol., Johns Hopkins, 1915-16; Instr. in Physiol., Harv., 1916-18; *Res. Phys., P. B. B. H., July 10-Oct. 15, 1917*; Asst. Prof. Physiol., Harv., 1918-19; Assoc. Prof. Applied Physiol., *ibid.*, 1919-23; Asst. in Med., M. G. H., 1922; Asst. to the Visit. Phys., B. C. H., 1922-24; Special Research Lab. of Zoöphysiology, Univ. of Copenhagen, Denmark, 1926-27; Prof. of Physiol., Harv.; Asst. Dean, Harv. Sch. Public Health; Act. Dean, *ibid.*, May 1, 1930-Feb. 1, 1931.

DRINKER, KATHERINE ROTAN

A.B., Bryn Mawr, 1910; M.D., Women's Med. Coll. of Pa., 1914; *Asst. Res. Phys., P. B. B. H., July 7-Sept. 24, 1917*; Research Worker in Physiol., 1914-15, 1916-17; *ibid.*, Johns Hopkins, 1915-16; Managing Ed., Journal Indust. Hygiene, 1918-21; Lect. in Hygiene, Bryn Mawr Coll., 1921-23; Research Worker in Physiol., Harv., 1921-26.

DU MORTIER, JEAN J.

B.A., Columbia, 1927; M.D., Yale, 1931; Substitute Interne, New Haven Hosp., October, 1930-May, 1931; *Surg. H. O., P. B. B. H., October 1, 1931-February 1, 1933*; Asst. Res. Surg. Pathol., New Haven Hosp.; Asst. Res. Surg., *ibid.*; died January 19, 1934.

DYKE, CORNELIUS

B.S., Univ. of Iowa, 1926; M.D., *ibid.*, 1926; Interne, Chelsea Naval Hosp., 1926-27; *H. O., Roent., P. B. B. H., 1927-28*; *Asst. Res. in Roent., ibid., 1928-29*; Asst. Director, Dept. of Roent., Neurol. Inst. of New York.

EDSON, PHILIPS JOSIAH

A.B., Univ. of Cal., 1920; M.A., *ibid.*, 1921; M.D., *ibid.*, 1924; Stud. Interne, Hahnemann Hosp., summer 1922; Med. Officer to Sierra Club Outings, 1921-22; Interne, Yosemite Hosp., Cal., 1923; *Med. H. O., P. B. B. H., Nov. 1, 1923-March 1, 1925*; *H. O., X-ray Dept., ibid., March 1-Sept. 1, 1925*; Jr. Member of Staff in Med., Pasadena Hosp.; Roentgenologist, Pasadena Disp., and Pasadena Chest Clin.; Lecturer on Pathol., Pasadena Hosp. Nursing School; Asst. Vis. Phys., Los Angeles Gen. Hosp.; Instr. in Phys. Diagnosis, College of Med. Evangelists; in practice, Pasadena, Calif.

EDWARDS, SUMNER

A.B., Bowdoin, 1910; Stud., Hebron Acad., Me., 1910-11; M.D., Harv., 1915; *Med. H. O., P. B. B. H., Nov. 1, 1915-Jan. 6, 1916*. Died Jan. 6, 1916.

EGLOFF, WILLIAM C.

S.B., Univ. of Chicago, 1923; M.D., *ibid.*, 1927; Interne, St. Luke's Univ. of Chicago, Jan.-July, 1928; *Jr. Assoc. in Med., P. B. B. H.*

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Univ. of Chicago, Jan.-July, 1928; *Jr. Assoc. in Med., P. B. B. H., Sept. 1, 1928-Aug. 1, 1932*; in practice, Mason City, Iowa.

ELIOT, MARTHA MAY

A.B., Radcliffe, 1913; M.D., Johns Hopkins, 1918; *Med. H. O., P. B. B. H., June 15, 1918-July 1, 1919*; St. Louis Children's Hosp., 1919-20; Phys., Boston, Massachusetts, 1920-21; Dept. of Pediatrics, New Haven Hosp., New Haven, Connecticut, 1921-23; Instructor, Yale, 1921-26; Asst. Clin. Prof. Pediatric Dept., Yale, 1926-32; Assoc. Clin. Prof., *ibid.*; Director, Div. of Child Hygiene, U. S. Children's Bureau, Washington, D. C.

ELKIN, DANIEL COLLIER

A.B., Yale, 1916; M.D., Emory Univ., 1920; Asst. Res. Surg., New York Lying-In Hosp., 1920; *Surg. H. O., P. B. B. H., March 1, 1921-July 1, 1922*; *Asst. Res. Surg., ibid., July 1, 1922-July 1, 1923*; *Res. Surg., ibid., July 1-Sept. 1, 1923*; Asst. in Surg., Harv., 1923; Instr. in Surg., Emory Univ. Sch. of Med., 1924; Assoc. in Surg., *ibid.*, 1924-30; Prof. of Surg., Emory Univ. and Surg.-in-chief to University Hospitals; Surg.-in-chief, Henrietta Eggleston Hosp. for Children, Atlanta, Georgia.

ENGELBACH, FRIEDRICH

A.B., Illinois College, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929*; Instr. in Dept. of Internal Med., Univ. of Mich., 1930-32; in practice, Jacksonville, Ill.

EVANS, JAMES A.

A.B., Univ. of Wis., 1917; M.D., Harv., 1920; Med. Interne, Barnes Hosp., St. Louis; Group Practice, 1 yr.; St. Frances Hosp., La Crosse, Wisconsin; June, 1922, holder of Scholarship in France under Professors Gilbert and Widal and Dr. Bensaude; *Asst. Res. Phys., P. B. B. H., July 10, 1923-July 1, 1924*; Asst. Preceptor in Med., Univ. of Wis. Med. School; Mem., Central Soc. for Clin. Research; in practice, La Crosse, Wisconsin.

EVANS, WILLIAM

A.B., Williams, 1926; M.D., Johns Hopkins, 1930; *Med. H. O., P. B. B. H., July 1, 1930-Feb. 19, 1931, and Oct. 1, 1931-July 1, 1932*; Vol. Asst., Med. Clin., Wurzburg, October, 1932-May, 1933; Research Fellow in Med., Harv., 1933-34; *Vol. Grad. Asst. P. B. B. H., 1933-34*.

FALK, EMIL A.

A.B., Univ. of Minn., 1921; M.D., Harv., 1925; *Med. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926*; Pathology, B. C. H., 1927; Med. Res., Second (Cornell) Med. Div., Bellevue Hosp., New York, 1927-29; National Hosp., Queen's Sq., London, England, May-Oct., 1929; Instr., Clin. Med., Cornell Univ.; Phys., O. P. D., New York Hosp.; in practice, New York City.

FALLON, JOHN

A.B., Holy Cross, 1919; M.D., Harv., 1923; Asst. in Anat., Harv., 1923-25; Surg. H. O., St. Vincent Hosp., Worcester, 1924-25; *Surg.*

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H. O., P. B. B. H., March 1, 1925-July 1, 1926; Fellow in Surg., Mayo Clin., Rochester, Minnesota, 1927-29; (on leave of absence, 1927); Surg. Res., St. Vincent Hosp., Worcester, 1927; Surg., *ibid.*

FALLON, LOUIS

M.D., Univ. of Pa., 1916; F.A.C.S.; *Surg. H. O., P. B. B. H., July 1, 1916-Nov. 15, 1916*; M. C., U. S. Army 1918-19; Capt. with Base Hosp. 51 and 69 and Gen. Hosp. 31, Carlisle, Pennsylvania; Consult. Surg., National Soldiers' Home, Togus; in practice, Augusta, Maine.

FARBER, SIDNEY

B.S., Univ. of Buffalo, 1923; M.D., Harv., 1927; *H. O., Pathol., P. B. B. H., Jan. 1-Sept. 1, 1927*; Res. Pathol., Children's Hosp., Sept. 1, 1927-Sept. 1, 1928; Guest Asst., Univ. of Munich Pathol. Inst., 1928-29; Instr. in Pathol., Harv.; Asst. Pathol., Children's Hosp., 1930-31; Pathol., *ibid.*

FARBER, WILLIAM P.

A.B., Univ. of Cal., 1922; M.A., *ibid.*, 1923; M.D., Harv., 1927; *Surg. H. O., P. B. B. H., March 1, 1927-July 1, 1928*; Asst. Phys., U. S. Fed. Penitentiary, Atlanta, Georgia, 1928-29; Asst. in Urol. to Dr. Montague Boyd, Atlanta, Georgia, 1929-30; Res. in Urol., Grady Hosp., Atlanta, Georgia, 1930-31; in practice of Urology, St. Petersburg, Florida.

FARNSWORTH, RICHARD WIGGIN

A.B., Univ. of Wis., 1924; M.D., Harv., 1928; *Surg. H. O., P. B. B. H., April 1, 1929-Aug. 1, 1930*; in practice, Janesville, Wis.

FARRELL, JAMES IRVING

A.B., Hamilton, 1925; M.D., Harv., 1929; *Med. H. O., P. B. B. H. July 1, 1929-Nov. 1, 1930*; H. O., Mass. Eye and Ear Infirmary, 1930-32; Ophthal. Surg., Faxon Hosp., Utica Gen. Hosp. and Utica Free Disp.; in practice, Utica, N. Y.

FEENEY, NEIL

B.A., M.D., McGill Med. School, 1927; Interne, Montreal Gen. Hosp.; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1929-Aug. 1, 1930*; Asst. Demonstr. in Med., McGill Med. Sch.; in practice, Montreal.

FENDER, FREDERICK ALLEN

A.B., Univ. of Calif., 1924; M.D., Harv., 1929; Med. Officer, U. S. S. *Nantucket*, May-October, 1929; *Surg. H. O., P. B. B. H., October 1, 1929-February 1, 1931*; Res. Neuro-Surg., B. C. H., 1931-32; Abner Perry Hard Fellow Surg. Research, Rochester Sch. Med. and Dentistry, 1932-33; Asst. Res. Surg., Strong Mem. Hosp.

FETNER, L. M.

M.D., Med. Coll. of Va., 1915; *H. O. Roentgenology, P. B. B. H., Oct. 1, 1926-Oct. 1, 1927*; *Asst. Res. Roent., ibid., 1927-28*; in practice, Charlotte, N. C.

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FISHBACK, FRED C.

A.B., Harv., 1919; M.S., Surg., Univ. of Minn., 1928; M.D., Harv., 1922; H. O., St. Francis Hosp., Jersey City, New Jersey; *Pathol. H. O., P. B. B. H., May 15, 1923-Feb. 1, 1924*; 1 yr. at Woman's Hosp., New York City; N. Y. Lying-In Hosp., 1925; Fellow in Surg., Mayo Clin., Rochester, Minnesota, 1925-28; Prof. Clin. Surg., Georgetown Univ. Med. Sch., 1930-34; in practice, Washington, D. C.

FISHER, RIVINGTON H.

M.B., Queen's Univ., 1915; M.D., *ibid.*; C.M., *ibid.*; *Asst. Res. Surg., P. B. B. H., July 13, 1923-Jan. 1, 1924.*

FISKE, SEYMOUR

A.B., Univ. of Wis., 1916; M.D., Univ. of Pa., 1920; *Med. H. O., P. B. B. H., April 1, 1920-July 1, 1921*; Out-Patient Attend., Babies' Hosp., New York, 1921-22; Attend. Phys., Cornell Clin., 1921-23; Attend. Gastro-Enterologist, Vanderbilt Clin., New York, 1923-24; Chief, G. I. Clin., Midtown Hosp., New York, 1925-26; Asst. Attend. Phys., Lutheran Hosp. of Manhattan; Asst. Attend. Phys., Presbyterian Hosp., O. P. D., New York; in practice, New York.

FITZHUGH, GREENE S.

B.S., Univ. of Illinois, 1921; M.D., Harv., 1927; *Med. H. O., P. B. B. H., July 1, 1927-Nov. 1, 1928*; *Jr. Assoc. in Med., ibid., Nov. 1, 1928-Sept. 15, 1929*; Asst. Res. Phys., Thorndike Lab., B. C. H., 1929-30; in practice, Boston.

FLEMING, HOWARD

A.B., Univ. of Cal., 1914; M.D., *ibid.*, 1917; Med. and Surg. H. O., Univ. of Calif., 8 mos.; Capt., M. C., U. S. Army; Asst. Res. Surg., San Francisco Hosp., 1919; *Asst. Res. Surg., P. B. B. H., Dec. 20, 1919-Feb. 1, 1921*; Assoc. Prof., Univ. of Cal.; Visit. Neuro-Surg., St. Luke's, Mt. Zion, and San Francisco Hospitals; in practice, San Francisco.

FLEMING, LEROY NEWTON

A.B., Miami, 1910; M.D., Johns Hopkins, 1914; Asst. in Surg., *ibid.*, 1915; *Surg. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1916*; Special Stud., Univ. of Mich., 1915-16; Surg. Research, Detroit, Michigan.

FLEMING, ROBERT

A.B., Trinity, 1924; A.M., Harv., 1926; M.D., *ibid.*, 1930; *Med. H. O., P. B. B. H., Nov. 1, 1931-Mar. 1, 1932.*

FOLEY, FREDERIC E. B.

Ph.B., Yale, 1913; M.D., Johns Hopkins, 1918; Asst. in Pathol., *ibid.*, 1918-19; Lab. for Surg. Research, Harv., 1919-20; *Surg. H. O. P. B. B. H., March 1, 1920-July 1, 1921*; Assistant Prof. of Urol., Univ. of Minn. Med. Sch.; Chief Urologist, Ancker Hosp., St. Paul,

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Minnesota; Visit. genitourinary Surg., Miller Hosp.; in practice, St. Paul, Minnesota.

FORBES, HENRY STONE

A.B., Harv., 1905; Philippine Islands, 1905-06; M.D., Harv., 1911; Med. H. O., B. C. H., 1911-13; *Sr. Med. H. O., P. B. B. H., June 1-Nov. 1, 1913*; Phys. for Men, Infirmary, Univ. of Cal., Berkeley, Cal., 1914-15; Am. Red Cross, Serbia, 1915-16; Asst. Phys., M. G. H., O. P. D.; Lieut. and Capt., M. C., U. S. Army, 1917-19; Research Work, Cancer Commission, Harv.; Lab. and Field Work, Div. Industrial Hygiene, *ibid.*; Hon. Research Fellow, Applied Physiol., Yale Univ., New Haven, Connecticut; Research Work, Neuropathol., Harv.; Research Fellow Neuropathol., *ibid.*

FORT, JR., LYNN

B.S., Univ. of Ga., 1921; M.D., Emory Univ., 1925; Interne, Cincinnati Gen. Hosp., July, 1925-Feb., 1926; *Surg. H. O., P. B. B. H., March 1, 1926-July 1, 1927*; Asst. Res. Surg., Strong Mem. Hosp., Rochester, N. Y., 1927-28; in practice, Atlanta, Ga.

FOSTER, JOHN HESS

B.S., Colby, 1913; M.D., Univ. of Pa., 1917; *Med. H. O., P. B. B. H., July 1, 1917-June 15, 1918*; 1st Lieut., M. C., U. S. Army, 1918-19; Instr. in Med., Hunan-Yale Coll. of Med., Changsha, China; Vol. Asst., Thorndike Mem. Lab., B. C. H., 1923-24; Asst. in Med., Harv., 1924; Asst. Prof. in Med., Hunan-Yale Coll. of Med., Changsha, China; Assoc. Prof. of Med., *ibid.*, 1924-27; Attend. Phys., Waterbury Hosp.; in practice, Waterbury, Conn.

FOSTER, LEWIS CHANDLER

A.B., Univ. of Kansas, 1919; M.D., Harv., 1923; Substitute, Med. Serv., New York Hosp., 2 mos., 1922; *Surg. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924*; Asst. Res. Surg., New Haven Hosp., 1924-25; Res. Surg., *ibid.*, 1925-27; Instr. Surg., Yale Med. School, 1925-28; Asst. Clin. Prof. Surg., *ibid.*

FREEMAN, ALEX R.

M.D., Emory, 1929; Interne, Wesley Mem. Hosp., Atlanta, Georgia, 1929-30; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1930-July 1, 1932*; Asst. Plantation Phys., Estates of Central Aguirre, Porto Rico.

FREMONT-SMITH, FRANK

M.D., Harv., 1921; *Pathol. H. O., P. B. B. H., July 1, 1921-July 1, 1922*; Med. H. O., B. C. H., 1922-23; Asst. in Neuropathol., Harv., 1923-24; Asst. in Neurol., M. G. H.; Asst. in Neuropathol., Harv., 1924-25 and 1925-26; John White Brown Scholar, Harv., 1924-25 and 1925-26; Jr. Visit. Phys., for Neurol., B. C. H., 1927-29; Research Fellow, Thorndike Mem. Lab., B. C. H., 1927-30; Asst. Vis. Phys. for Neurol., *ibid.*; in charge, Cerebrospinal Fluid Lab., B. C. H.; Asst. Prof. Neuropathol., Harv.; Chief of Neurol. Labs., B. C. H.

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FREMONT-SMITH, MAURICE

A.B., Harv., 1913; M.D., *ibid.*, 1918; *Surg. H. O., P. B. B. H., March 1, 1918-Feb. 7, 1919*; in charge of hosp. at Sivas, Armenia, 1919-20; in practice, internal medicine, Boston.

FRIEDGOOD, HARRY B.

A.B., Univ. of Mich., 1924; M.D., Johns Hopkins, 1928; Act. Interne, Simpson Memorial Inst., Ann Arbor, Mich., Sept., 1927-Feb., 1928; *Med. H. O., P. B. B. H., Nov. 1, 1928-March 1, 1930*; Jr. Instr. in Int. Med., Univ. of Mich., March 1, 1930-July 1, 1930; Instr. in Int. Med., *ibid.*

FULTON, JOHN

B.A., Oxon, 1923; M.A. and Ph.D., *ibid.*, 1925; M.D., Harv., 1927; Rhodes Scholar, Magdalen College, Oxford Univ., 1921-23; *Jr. Assoc. in Neurol, Surg., P. B. B. H., March-June, 1928*; Research Fellow, Magdalen College, Oxford, England, 1928-30; Sterling Prof. of Physiology, Yale Univ. Sch. of Med.

GABE, WILLIAM EDWIN

M.D., Harv., 1918; *Surg. H. O., P. B. B. H., March 1, 1918-March 31, 1919*; Instr. in Surg., Indiana Univ. Sch. of Med.; Visit. Staff in Gynecology, Indianapolis City Hosp.; Staff, Methodist Episcopal Hosp., and St. Vincent's Hosp., Indianapolis; in practice, Indianapolis, Indiana.

GERMAN, WILLIAM J.

A.B., Univ. of Calif., 1922; M.A., *ibid.*, 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927*; Fellow in Plastic Surg., Johns Hopkins; Asst. in Surg., Yale Univ. School of Med., and Asst. Res. in Surg., New Haven Hosp., 1928-29; William Harvey Cushing Fellow in Surg., Yale Univ. School of Med., 1929-30; Instr. in Surg., *ibid.*, 1930-32; Res. in Surg., New Haven Hosp., 1930-31; Asst. Prof. Surg., Yale Univ.; Assoc. Surg., New Haven Hosp.

GILE, HAROLD H.

A.B., Princeton, 1915; M.D., Columbia (Coll. of Phys. and Surgs.), 1922; Surg. Interne, Presbyterian Hosp., New York, 1922-24; *Asst. Res. Surg., P. B. B. H., Jan. 1-Nov. 1, 1925*; Asst. Visit. Urologist, Presbyterian Hosp., New York.

GLENN, FRANK

M.D., Washington Univ., 1927; Med. Service, Strong Mem. Hosp., July, 1927-July, 1928; *Surg. H. O., P. B. B. H., Jan. 1, 1929-May 1, 1930*; *Asst. Res. Surg., ibid., May 1, 1930-Apr. 15, 1931*; *Interim Res. Surg., ibid., July 13, 1931-Oct. 1, 1931*; George Gorham Peters Trav. Fellow, 1931-32; 1st Asst. Res. Surg., N. Y. Hosp., 1932-33; Res. Surg., N. Y. Hosp.; Instr. in Surg., Cornell Med. Coll.

GOETSCH, EMIL

S.B., Univ. of Chicago, 1903; Ph.D., *ibid.*, 1906; Fellow Asst. and Assoc. in Anat., *ibid.*, 1904-08; Research Asst., Dept. of Exp. Ther-

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apeutics, *ibid.*, 1908-09; Rush Med. Coll., 1906-07; M.D., Johns Hopkins, 1909; Asst. in Surg., *ibid.*, 1909-10; Asst. Res. Surg., *ibid.*, 1910-12; *Res. Surg.*, *P. B. B. H.*, *Sept. 1, 1912-Sept. 1, 1915*; Asst. in Surg., Harv., 1912-15; Assoc. in Surg., Johns Hopkins, 1915-18; Assoc. Prof. of Surg., *ibid.*, 1918-19; Prof. of Surg. and Surg.-in-Chief, Long Island Coll. Hosp., Brooklyn, New York; in practice, Brooklyn, New York.

GOLDEN, ROSS

A.B., Cornell (Mt. Vernon, Iowa), 1912; M.D., Harv., 1916; *Med. H. O.*, *P. B. B. H.*, *July 1, 1916-July 18, 1917*; Capt. and Major, M. C., U. S. Army, 1917-20; House Phys., X-ray Dept., M. G. H., 1920-21; *Asst. Res. Phys.*, *P. B. B. H.*, *July 1, 1921-April 15, 1922*; Visit. Phys., Roentgen-ray Dept., Presbyterian Hosp., New York; Assoc. Prof. of Med., Columbia Univ.

GOODALL, HARRY WINFRED

A.B., Dart., 1898; M.D., Harv., 1902; House Pupil, M. G. H., 1902-03; House Pupil, Boston Lying-In Hosp., 1903; *Assoc. in Med.*, *P. B. B. H.*, *Dec. 12, 1912-Dec. 31, 1917*; Lieut. Col., M. C., U. S. Army, 1917-19; Instr. in Med., Harv. Grad. Sch. of Med.; Phys., Boston Dispensary; Asst. Visit. Phys., N. E. Baptist Hosp.; in Boston Dispensary; Asst. Visit. Phys., N. E. Baptist Hosp.; N. E. Deaconess Hosp.; Chief, Med. Staff, Chelsea Mem. Hosp.; in practice, Boston.

GOODPASTURE, ERNEST WILLIAM

A.B., Vanderbilt, 1907; M.D., Johns Hopkins, 1912; Rockefeller Fellow in Pathol., Johns Hopkins, 1912-14; Pathol., Union Protest. Infirmary, Baltimore, 1913-14; Asst. Res. Pathol., J. H. H., 1913-14; Act. Res. Pathol., *ibid.*, 1914-15; Instr. in Pathol., Johns Hopkins, 1914-15; *Res. Pathol.*, *P. B. B. H.*, *Sept. 1, 1915-Oct. 1, 1917*; Asst. Prof. Pathol., Harv.; Fellow in Pathol., Cancer Comm., *ibid.*; Lieut. (j. g.) M. C., U. S. N. R. F.; *Act. Pathol.*, *P. B. B. H.*, *Feb. 1-Aug. 15, 1920*; Chief, Dept. of Pathol. and Bacteriol., Univ. of Philippines, 1922; Pathol., Phil. Gen. Hosp., Manila, 1922; Director, William H. Singer Mem. Research Lab., Pittsburgh, 1922-24; Scholarship, Gen. Education Board of the Rockefeller Found. Inst. for Gen. and Exp. Pathol., Vienna, 1924-25; Prof. of Pathol., Vanderbilt Univ.

GORDON, BURGESS

A.B., Gonzaga Univ., 1912; M.D., Jefferson Med. Coll., 1919; Interne, Jefferson Hosp., 1919-21; *Asst. Res. Phys.*, *P. B. B. H.*, *Sept. 15, 1921-Aug. 1, 1922*; *Res. Phys.*, *ibid.*, *Aug. 1, 1922-Sept. 1, 1925*; Assoc. Prof. Med., Jefferson Med. College; Asst. Phys., Pennsylvania Hosp.; Visit. Phys., White Haven San.; Consult. Phys., Frederick Douglass Hosp.; Med. Director and Phys. in charge, Dept. for Diseases of Chest, Jefferson Hosp., Philadelphia; in practice, Philadelphia, Pennsylvania.

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GRAHAM, WILLIAM RANDOLPH

M.D., Med. Coll. of Va., 1925; Interne, Johnston-Willis Hosp., Richmond, Va., 1925-26; *Jr. Assoc. in Med.*, *P. B. B. H.*, 1926-27; in practice, Richmond, Virginia.

GRANT, SAMUEL BECKER

B.S., Washington Univ., 1918; M.D., *ibid.*, 1920; *Med. H. O.*, *P. B. B. H.*, Oct. 16, 1920-March 1, 1922; Med. H. O., J. H. H., March 1, 1922-May 1, 1922; *Asst. Res. Phys.*, *P. B. B. H.*, April 15, 1922-Sept. 15, 1923; Asst. in Clin. Med., Wash. Univ.; Asst. in Med., Barnes Hosp.; in practice, St. Louis, Missouri.

GRAVES, EDWIN G.

A.B., Univ. of Texas, 1920; M.D., Harv., 1924; *Med. H. O.*, *P. B. B. H.*, July 1, 1924-July 1, 1925; in practice, Houston, Texas.

GRAVES, ROGER COLGATE

A.B., Syracuse Univ., 1913; M.D., *ibid.*, 1918; *Surg. H. O.*, *P. B. B. H.*, Aug. 15, 1918-Oct. 19, 1919; Asst. Res. Surg., New Haven Hosp., New Haven, Connecticut, 1919-20; *Asst. Res. Surg.*, *P. B. B. H.*, July 15, 1920-Aug. 1, 1921; *Assoc. in Surg.*, *ibid.*, Sept. 1, 1921-April, 1923; Cabot Fellow, Harv., in charge of Lab. of Surg. Research, Sept. 1, 1921-Sept. 1, 1922; Urologist, Carney Hosp.; Genito-Urinary Surg., Pondville State Hosp. for Cancer; Assoc. Consult. Urologist, Brockton Hosp.; Consult. Urol., Quincy Hosp.; Consult. Urol., Lakeville State San.; Consult. to the G. U. Dept. (Tumor Clinic), Boston Disp.; Assoc. Staff, Palmer Mem. Hosp.; in practice, Boston.

GRAY, CHARLES M.

A.B., Ohio Wesleyan Univ., 1926; M.D., Johns Hopkins, 1930; *Surg. H. O.*, *P. B. B. H.*, Jan. 1, 1931-May 1, 1932.

GRAY, HORACE

A.B., Harv., 1909; M.D., *ibid.*, 1914; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1914-March 1, 1916; Inst. for Juv. Research, Chicago, Ill., 1926-29; Clin. Prof. Med., Stanford Univ., San Francisco, California.

GREEN, GEORGE F.

B.S., Univ. of Mich., 1922; M.S. in Surg., Univ. of Minn., 1929; M.D., Univ. of Mich., 1924; Asst. in Physiol., *ibid.*; Asst. in Med., B. C. H., IV Med. Serv.; *Jr. Assoc. in Pathol.*, *P. B. B. H.*, Oct. 1, 1924-Jan. 15, 1925; Fellow in Surg., Mayo Foundation, 1925-29; Staff Surg., St. Joseph's Hosp. and Epworth Hosp., South Bend, Ind.; in practice, South Bend, Ind.

GREENE, JAMES A.

M.D., Harv., 1925; *Med. H. O.*, *P. B. B. H.*, November, 1925-March, 1926; in practice, Dallas, Texas, 1926-28; Instr. in Med., Univ. of Mich., 1928-30; Instr. of Int. Med., Univ. of Indiana, 1930-32; Assoc. in Med., Univ. of Iowa.

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GREENE, THEODORE C.

A.B., Harv., 1920; M.D., *ibid.*, 1924; Asst. in Pathol., Johns Hopkins, Sept., 1924-Jan., 1925; *Surg. H. O., P. B. B. H., March 1, 1925-July 1, 1926*; Asst. in Clin. Neurol., Peking Union Med. Coll., Sept. 15, 1929-May 15, 1930; Surg., Douw Hosp., Presbyterian Mission, Peking, China.

GREENSPON, EDWARD A.

M.D., McGill Univ., 1916; House Bacteriol., Royal Victoria Hosp., Montreal, 1916-17; Asst. Res. Pathol., Johns Hopkins, 1917-18; Capt., Canadian Army Med. Corps; *Res. Pathol., P. B. B. H., Oct. 1, 1919-April 1, 1920*; *Med. H. O., ibid., April 1, 1920-July 1, 1921*; May Fellow in Med. Research, Johns Hopkins; Asst. in Med., *ibid.*, 1921-23; Jr. Attend. Phys., Montreal Gen. Hosp.; in practice, Montreal, Canada.

GREY, ERNEST

A.B., Univ. of Wis., 1907; Asst. in Anat., *ibid.*, 1907-08; Stud. in Med., *ibid.*, 1907-08; M.D., Johns Hopkins, 1911; Res. H. O., *ibid.*, 1911-12; *Surg. H. O., P. B. B. H., Nov. 1, 1912-Feb. 12, 1914*; Asst. Res. Surg., *ibid.*, Feb. 12, 1914-Sept. 1, 1916; Asst. in Surg., Harv., 1915-16; Instr. in Surg., Johns Hopkins. *Died Oct. 12, 1918.*

HAIGHT, CAMERON

A.B., Univ. of Calif., 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928*; Asst. Res. Surg., New Haven Hosp., 1928-31; Instr. in Surg., Univ. of Mich.

HALBERSLEBEN, DAVID L.

A.B., Univ. of Nebraska, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., July 1, 1928-November 1, 1929*; Visit. Phys., Channing Home; in practice, Roslindale, Massachusetts.

HALE, WORTH

A.B., Univ. of Mich., 1908; M.D., *ibid.*, 1904; *Assoc. in Med., P. B. B. H., Nov. 1, 1917-Dec. 31, 1918*; Assoc. Prof. of Pharm. and Asst. Dean, Harv.

HALL, FRANCIS C.

Litt.B., Princeton, 1913; M.D., Harv., 1917; H. O., M. G. H., 1918; M.C., U. S. Army, 1918-19; Asst. Visit. Phys. and Visit. Phys. to O. P. D., M. G. H., 1920-22; *Assoc. in Med., P. B. B. H., Apr. 14, 1921-Sept. 24, 1931*; Research Fellow, Thorndike Mem., B. C. H.; Jr. Visit. Phys., *ibid.*; Asst. in Med., Harv.; in practice, Boston, Massachusetts.

HALLER, DAVID ALEXANDER

A.B., Hampden-Sidney, 1908; M.D., Columbia, 1913; *Med. H. O., P. B. B. H., Nov. 1, 1913-March 1, 1915*; Asst. Res. Phys., *ibid.*, March 1, 1915-Oct. 1, 1916; Res. Phys., *ibid.*, Oct. 1, 1916-June 6, 1917; Major, M. C., U. S. Army, 1917-19; Junior Attend. Phys., Hahnemann Hosp., 1920-21; Internist for the Rochester Clinic,

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Rochester, New York, 1919-25; Asst. Phys., Rochester Gen. Hosp.; Phys. to Baden St. Disp., 1924-25; Instr. in Med., Univ. of Rochester Med. Sch., 1926-29; Asst. Prof. of Med., *ibid.*; Asst. Phys., Strong Mem. Hosp., Rochester, N. Y.; Chief, Med. Serv., Rochester Gen. Hosp.; in practice, Rochester, N. Y.

HANSMANN, GEORGE H.

M.D., Univ. of Iowa, 1918; Hosp. Chem., Iowa Univ. Hosp., 1918-19; Clin. Asst., Dept. of Internal Med., *ibid.*, 1919-20; Lect. in Clin. Microscopy, *ibid.*, 1920-21; *Res. Pathol., P. B. B. H., Sept. 15, 1921-Sept. 15, 1923*; Pathol., Iowa Univ. Hosp.

HARBIN, MAXWELL

B.S., Univ. of Georgia, 1916; M.D., Harv., 1920; *Surg. H. O., P. B. B. H., Nov. 1, 1920-March 1, 1922*; H. O., Children's Hosp., 1922-23; Surg., Harbin Hosp., 1923-25; Assoc. in Orthopedic Surg., Lakeside Hosp.; Surg. in Charge, Rainbow Hosp.; Asst. Prof. Orthopedic Surg., Western Reserve Univ. School of Med.

HARBIN, JR., ROBERT MAXWELL

B.S., Univ. of Ga., 1925; M.D., Emory Univ. Med. School, 1928; *Surg. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929*; in practice, Rome, Ga.

HARRISON, TINSLEY RANDOLPH

A.B., Univ. of Mich., 1919; M.D., Johns Hopkins, 1922; *Med. H. O., P. B. B. H., Nov. 1, 1922-March 1, 1924*; *Asst. Res. Phys., ibid., March 1-Sept. 1, 1924*; Asst. in Med., Johns Hopkins; Res. Phys., Vanderbilt Univ. Hosp., Nashville, Tennessee; Instr. in Med., *ibid.*, 1926-27 (leave of absence, 1927-28); Asst. Prof. Med., *ibid.*, 1928-32; Assoc. Prof. of Med., *ibid.*

HARRISON, JR., WILLIAM GROCE

A.B., Univ. of Mich., 1924; M.D., Johns Hopkins, 1928; *Med. H. O., P. B. B. H., March 1, 1929-July 1, 1930.*

HARVEY, SAMUEL CLARK

Ph.B., Yale, 1907; M.D., *ibid.*, 1911; Sc.D., Western Reserve, 1931; Alonzo Clark Fellow, Columbia, 1911-12; Instr. in Pathol., *ibid.*, 1912-13; Asst. Res. Phys., Loomis Sanitarium, Loomis, New York, 1913-14; *Surg. H. O., P. B. B. H., Nov. 1, 1914-Nov. 1, 1915*; Arthur Tracy Cabot Fellow, in charge of Lab. of Surg. Research, Harv., 1915-16; *Asst. Res. Surg., P. B. B. H., Nov. 1, 1916-May 7, 1917*; Major, M. C., U. S. Army, 1917-19; Res. Surg., New Haven Hosp.; Instr. in Surg., Yale, 1919-20; Asst. Prof. of Surg., *ibid.*, 1920-21; Assoc. Prof. of Surg., *ibid.*, 1921-23; Consult. Surg., State of Conn. Tbc. Comm.; Surgeon-in-Chief, New Haven Hosp. and New Haven Disp.; Prof. of Surg., Yale.

HATCH, FLOYD FROST

A.B., Univ. of Utah, 1912; M.D., Harv., 1914; *Med. H. O., P. B. B. H., March 1, 1914-Jan. 4, 1915* (granted leave of absence from

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Jan. 4-Feb. 28, 1915); Surg. House Pupil, M. G. H., 1915-16; House Surg., *ibid.*, 1916-17; Surg. to G. U. Dept., Salt Lake County Hosp., 1917-18; Surg. to G. U. Dept., L. D. S., Hosp., Salt Lake City, Utah; 1st Lieut., M. C., U. S. Army, 1918-19; Asst. County Phys., Salt Lake County Hosp., and Asst. Visit. Surg., *ibid.*, 1921-22; Post-Grad. Study of Surg., Europe, 1926-27; Sr. Visit. Surg., Latter Day Saints' Hosp.; Surg., Inter-Mountain Clin.; in practice, Salt Lake City, Utah.

H'DOUBLER, FRANCIS TODD

B.A., Univ. of Wis., 1907; M.A., *ibid.*, 1908; Ph.D., *ibid.*, 1910; Stud., Univ. of Wis. Med. Sch., 1 year; Stud., Rush Med. Sch. and Univ. of Philippines, 1 year; M.D., Harv., 1915; H. O., Augustana Hosp., Chicago, 1915-16; *Med. H. O., P. B. B. H., Jan. 11, 1916-March 1, 1917*; H. O., Augustana Hosp., 1917-18; 1st Lieut. and Capt., M. C., U. S. Army, 1918-19; Moseley Travelling Fellow, Harv., 1919-20; Lakeside Hosp., Cleveland, Ohio, 1921; Instr. in Pathol. and Surg., Univ. of Ill., 1921-24; Jr. Attend. Surg., Augustana Hosp., Chicago; in practice, Chicago; Attend. Surg., St. John's, Burge Deaconess, and Springfield Baptist Hospitals; in practice, Springfield, Mo.

HEAD, JEROME R.

M.D., Harv., 1922; *Surg. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923*; Surg. Pathol., Mayo Clin., Rochester, Minnesota, 1924; Res. Surg., State of Wis. Gen. Hosp., Madison, 1924-26; Assoc. in Surg., Northwestern Univ.; in practice, Chicago, Ill.

HENDERSON, WILLIAM ROBERT

M.B., Ch.B., Edinburgh, 1926; House Surg., Royal Infirmary, Edinburgh, 1926-27; House Surg., Sick Children's Hosp., Edinburgh, 1927; Rockefeller Fellow, British Research Council; *Asst. Res. Surg., P. B. B. H., May 1, 1930-Mar. 15, 1931*; Clin. Asst. in Neuro-Surgery, Edinburgh Royal Infirm.

HERRICK, THEODORE POMEROY

A.B., Yale, 1915; M.D., Harv., 1919; *Med. H. O., P. B. B. H., Dec. 26, 1918-Jan. 1, 1920*; Med. H. O., Children's Hosp., Boston, 1920; H. O., Infants' Hosp., Boston, 1921; Res. Pediatrician, Rainbow Hosp., Cleveland, Ohio, 1921-24; Asst. Visit. Pediatrician, St. Vincent's Charity Hosp., Cleveland, Ohio, 1921-28; Asst. Visit. Pediatrician, St. Luke's Hosp., Cleveland, Ohio, 1922-23, and from 1928 to present time; in practice, Cleveland, Ohio.

HERRING, JAMES B.

M.D., Univ. of Pa., 1922; Interne, Southern Pacific Hosp., 1922-23; Private practice, San Francisco, 1923-30; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1931-Sept. 1, 1932*; Member of Staff, St. Luke's Hosp., San Francisco.

HERRMANN, GEORGE R.

B.S., Univ. of Mich., 1916; M.D., M.S., *ibid.*, 1918; Ph.D., *ibid.*, 1922; *Med. H. O., P. B. B. H., Oct. 1, 1918-Oct. 1, 1919*; Asst. Res.

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Phys., Barnes Hosp., 1919-20; Res. Phys., *ibid.*, and Asst. in Med., Wash. Univ., St. Louis, 1920-21; Instr. in Med., Univ. of Mich., and Asst. Prof. Med., *ibid.*, 1921-25; Asst. Prof. of Med. and Assoc. Prof. of Med., Tulane Univ., New Orleans, La.; Prof. of Clin. Med., Univ. of Texas, Galveston, Tex.

HERRMANN, LOUIS G.

A.B., Univ. of Mich., 1920; M.D., Wash. Univ. Med. Sch., 1924; Interne, Maryland Gen. Hosp., Baltimore, July 1, 1924-March 1, 1925; *Med. H. O., P. B. B. H., March 1, 1925-July 1, 1926*; Asst. Res. Surg., Lakeside Hosp., Cleveland, Ohio, 1926-27; Crile Research Fellow in Surg. and Director, Lab. of Surg. Research, Western Reserve Univ. and Lakeside Hosp., 1927-28; Res. Surg., Lakeside Hosp.; Instr. in Surg., Western Reserve Univ., 1929-30; Asst., Clinique Chirurgicale A (Prof. Leriche) Univ. de Strasbourg, Strasbourg, France, 1930-31; Asst. Chirurgische Universitäts Klinik (Prof. P. Clairmont) Univ. of Zurich, Switzerland, 1931-32; Asst. Prof. of Surg., Univ. of Cincinnati.

HERTIG, ARTHUR T.

B.S., Univ. of Minn., 1928; M.D., Harv., 1930; *Pathol. H. O., P. B. B. H., July 1, 1930-July 1, 1931*; Pathol., B. L. I.

HIGBEE, DANIEL RIGGS

A.B., Col. Coll., 1920; M.D., Harv., 1923; *Med. H. O., M. G. H., March, 1924-Nov., 1925*; *Surg. H. O., P. B. B. H., Nov. 1, 1925-March 1, 1927*; in practice, Denver, Colo.

HJORT, AXEL MAGNUS

A.B., Univ. of Ill., 1914; M.S., *ibid.*, 1915; Ph.D., Yale, 1918; M.D., Yale Univ. Med. Sch., 1921; *Med. H. O., P. B. B. H., July 1, 1921-Nov. 1, 1922*; Parke Davis & Co., Detroit, Michigan, 1923-26; Prof. Pharmacology, Dart. Med. Sch., Hanover, N. H., 1926-29; Toxicologist and Asst. Director of Med. Research, Med. Research Div., Chemical Warfare Service, Edgewood Arsenal, Edgewood, Md., 1929-32; Physiologist, Exp. Research Labs., Burroughs Wellcome Co., Tuckahoe, N. Y.

HODGSON, JOHN SPRAGUE

Ph.B., Brown, 1911; M.D., Harv., 1917; Surg. House Pupil, M. G. H., 1915-16; Res. Surg., *ibid.*, 1916; *Surg. H. O., P. B. B. H., Nov. 1, 1916-March 1, 1917*; *Asst. Res. Surg., ibid., March 1-June 22, 1917*; 1st Lieut., M. C., U. S. Army, 1917-19; Typhus Work in Macedonia, 1919; Res. Surg., M. G. H., 1920; Second in Neurol. Surg., M. G. H.; Asst. Visit. Surg., *ibid.*

HOEN, THOMAS I.

A.B., Johns Hopkins, 1924; M.D., *ibid.*, 1928; Fellow in Surg., *ibid.*; *Surg. H. O., P. B. B. H., April 1, 1929-Aug. 1, 1930*; *Asst. Res., Surg., ibid., Oct. 1, 1930-Sept. 7, 1931*; Res., Neuro-Surg., Royal Victoria Hosp.; Neuro-Surg., St. Luke's Hosp., Montreal.

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HOLMAN, EMILE

A.B., Stanford Univ., 1911; Univ. of Oxford, 1916; Med. Stud., Oxford Univ., Royal College of Surgeons, Edinburgh, Rotunda Hosp., Dublin, National Hosp., London, 1914-17; M.D., Johns Hopkins, 1918; Res. Med. Officer, Children's Hosp. Sch., 1918-19; Asst. Res. Surg., J. H. H., 1919-21; Res. Surg., *ibid.*, 1921-23; Instr. in Surg., J. H. M. S., 1920-23; *Asst. Res. Surg., P. B. B. H., July 15-Sept. 1, 1923; Res. Surg., ibid., Sept. 1, 1923-July 1, 1924*; Austin Teach. Fellow, Harv., 1923-24; Attend. Surg., Lakeside Hosp. and Asst. Prof. of Surg., Western Reserve Univ., Cleveland, Ohio, July, 1924-Dec., 1925; Assoc. Prof. Surg., Stanford Univ. Med. Sch., 1925-26; Attend. Surg., Stanford Univ. Hosp., San Francisco; Prof. of Surg., Exec. Head, Dept. of Surg., Stanford Univ. Med. School; Visit. Surg., Peiping Union Med. Coll., Peiping, China, Sept.-Dec., 1930.

HORRAX, GILBERT

A.B., Williams, 1909; M.D., Johns Hopkins, 1913; *Surg. H. O., P. B. B. H., July 1, 1913-Nov. 1, 1914*; Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv., 1914-15; *Asst. Res. Surg., P. B. B. H., 1915-16*; Res. Surg., M. G. H., 1916-17; Major, M. C., U. S. Army, 1917-19; Asst. Prof. of Surg., and Secretary, Dept. of Surg., Harv., 1925-32; Consult. Neurol. Surg., Children's Hosp., Boston, 1926-31; Consult. Neurol. Surg., N. E. Deaconess Hosp., 1926-32; *Assoc. in Neurol. Surg., P. B. B. H., Oct., 1919-March, 1928; Sr. Assoc. in Neurol. Surg., ibid., 1928-32*; in charge of Neuro-Surgery, The Lahey Clinic, Boston.

HOUCK, GEORGE H.

A.B., Univ. of Oregon, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H., Nov. 1, 1927-March, 1929*; Asst. Res. in Med., Lane Hospital and Stanford Univ. Med. Sch., 1929-30; Visit. Phys. in charge of Med. O. P. D., Univ. of Calif. Hosp.; Asst., Dept. of Med., Univ. of Calif. Med. Sch., San Francisco, Calif., 1930-31; Jr. Visit. Phys., Los Angeles General Hosp.; Assoc. Staff, St. Vincent's Hosp., Los Angeles, 1931-32; Exec. Staff, *ibid.*; Instr., Dept. of Med., Univ. of Southern Calif., Los Angeles, Calif.

HOUGHTON, JOHN D.

A.B., Harv., 1927; M.D., *ibid.*, 1932; *Pathol. H. O., P. B. B. H., January-July, 1932*; Res. Pathol., B. C. H., February 14-August 14, 1933; 3rd Asst. Pathol., *ibid.*

HOUSTON, JR., DAVID WALKER

A.B., Princeton, 1912; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., July 1, 1916-Nov. 1, 1917; Asst. Res. Surg., ibid., Nov. 1, 1917-Feb. 8, 1918*; 1st Lieut., M. C., U. S. Army, 1918-19; Attend. Surg., Samaritan Hosp., Troy, New York; in practice, Troy, New York.

HOWARD, HERBERT BURR

A.B., Harv., 1881; M.D., *ibid.*, 1884; Asst. Phys., State Infirmary, Tewksbury, Massachusetts, 1884-85; in practice, Idaho Springs,

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Colorado, 1885-87; Asst. Phys., State Infirm., 1887-91; Supt., *ibid.*, 1891-97; Res. Phys., M. G. H., 1897-1908; *Supt.*, *P. B. B. H.*, May 1, 1908-May 1, 1919 (*retired—age limit*); Mem., Mass. State Bd. of Insanity, 1898-1913 (Chairman, 1908-13); Pres., American Hosp. Assoc., 1909-10; Trustee, State Colony for the Insane, Gardner, Massachusetts. *Died March 6, 1923.*

HUDSON, RICHARD T.

B.S., Univ. of Louisville, 1920; M.D., *ibid.*, 1924; 1 year rotating internship, Louisville City Hosp.; Asst. Res. Surg., Louisville City Hosp.; *H. O.*, *Roentgenology*, *P. B. B. H.*, Aug. 1-Oct. 12, 1926; Gen. Practice, Oldham Co., Ky., 1926-28; Clin. Asst., Orthopedic Surg., Louisville City Hosp., 1928-31; Member of Staff at Following Hospitals: Louisville City, Kentucky Baptist, St. Joseph's, Norton Mem. Infirm., Crippled Children's, Masonic Widows and Orphans Home; Member, Professional Advisory Comm., Kentucky Crippled Children's Commission; Res., Orthopedic Surg., Hosp. for Relief of Ruptured and Crippled, N. Y.; in practice, Louisville, Ky.

HUGGINS, HARRISON D.

Univ. of Oregon Med. School, 2 yrs.; M.D., Harv., 1926; Substitute *H. O.*, House of Good Samaritan; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1926-March 1, 1928; 6 mos. post-grad. work, Vienna, Austria; Clin. Instr. in Otolaryngology, Univ. of Oregon; in practice, Hillsboro, Oregon.

HUMISTON, HOMER W.

B.S., Univ. of Ill., 1923; M.D., Harv., 1925; *Med. H. O.*, *P. B. B. H.*, July 1, 1925-Nov. 1, 1926; Fellow in Surg., Mayo Clin., Rochester, Minn., Nov. 1, 1926-April 1, 1929; in practice, Oak Park, Ill.

HURWITZ, SAMUEL HAYMANN

A.B., Harv., 1907; A.M., *ibid.*, 1908; Special Stud., Univ. of Strassburg, Germany, 1909-10; Spec. Student, Inst. of Infectious Diseases, Berlin, Germany, summer of 1911; M.D., Johns Hopkins, 1912; Res. *H. O.*, *J. H. H.*, 1912-13; *Surg. H. O.*, *P. B. B. H.*, Nov. 1, 1913-March 1, 1915; Instr. in Research Med., Univ. of Calif., 1915-17; Asst. Clin. Prof. of Med., *ibid.*, 1917-26; Assoc. Clin. Prof. of Med., Stanford Univ. Med. School.

ILFELD, FREDERIC WILLIAM

A.B., Harv., 1928; M.D., *ibid.*, 1932; *Pathol. H. O.*, *P. B. B. H.*, July 1, 1932-January 1, 1933; Rotating and Surg. *H. O.*, Lakeside Hosp.

INGRAHAM, FRANC DOUGLAS

A.B., Harv., 1922; M.D., *ibid.*, 1925; *Surg. H. O.*, *P. B. B. H.*, July 1, 1925-Nov. 1, 1926; Fellow in Surg., Johns Hopkins Univ., Nov. 1, 1926-Sept. 1, 1927; *Asst. Res. Surg.*, *P. B. B. H.*, Sept., 1927-Sept., 1928; *Res. Surg.*, *ibid.*, Sept.-Oct., 1928; *P. B. B. H. Travel-*

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ing Fellow in Surg., 1928; Asst. Neurol. Surg., Children's Hosp., Boston; Asst. in Surg., Harv.

JACK, EDWIN EVERETT

A.B., Harv., 1884; M.D., *ibid.*, 1887; *Act. Consult. Ophthalmologist*, *P. B. B. H.*; Consult. Ophthalmologist, Mass. Eye and Ear Infirm.; in practice, Boston.

JACK, WILLIAM DAVID

A.B., Creighton, 1908; Grad. Stud., Univ. of Chicago, 1909-10; M.D., Johns Hopkins, 1914; *Surg. H. O.*, *P. B. B. H.*, *July 1, 1914-Nov. 1, 1915*; Capt. and Asst. Surg., 2nd Harv. Unit, B. E. F., France, 1915-16; Asst. Res. Urologist, J. H. H., 1916-17; Capt., M. C., U. S. Army and Consult. Urologist, A. E. F., 1917-19; Asst. Res. Surg., and Res. Urol., J. H. H., 1919-21; in practice, Chicago, Illinois.

JACKSON, HOWARD BURR

A.B., Harv., 1915; M.D., *ibid.*, 1919; *Med. H. O.*, *P. B. B. H.*, *March 15, 1919-April 1, 1920*; H. O., Surg. and Obstet. Services, Mass. Homœopathic Hosp., 1920; Asst. Phys. to Out-Patients, M. G. H.; Asst. Phys., Faulkner Hosp.; in practice, Jamaica Plain, Massachusetts.

JACKSON, HOWARD L.

M.D., Tufts, 1918; Interne, Springfield Hosp.; in practice, Springfield, Mass.; *H. O.*, *Roent.*, *P. B. B. H.*, *Oct. 1, 1929-July 1, 1930*.

JACOBSEN, VICTOR CLARENCE

B.S., Univ. of Wis., 1915; M.D., Harv., 1917; *Med. H. O.*, *P. B. B. H.*, *July 18, 1917-July 1, 1918*; 1st Lieut., M. C., U. S. Army, 1918; *Pathol. H. O.*, *P. B. B. H.*, *Jan. 1-July 1, 1919*; *Res. Pathol.*, *ibid.*, *July 1-Oct. 1, 1919*; Asst. Prof. of Pathol., Univ. of Wisconsin, 1919-20; *Res. Pathol.*, *P. B. B. H.*, *July 1, 1920-Sept. 1, 1921*; Instr. in Pathol., Harv., 1920-21; Pathol., Albany Hosp. and Troy Hosp.; Cyrus Strong Merrill Prof. of Pathol., Union Univ., Albany, N. Y.; Member, National Research Council, Med. Div., 1930; Research, Pasteur Inst., Paris, under Prof. C. Levaditi, 1931.

JACOBSON, CONRAD

B.S., Beloit, 1900; Grad. Stud., 3 summer qrs., Univ. of Chicago; Asst. Prof. of Chem. and Bacteriol., Armour Inst. of Tech., 1903-05; Research Asst. in Pathol., Univ. of Chicago, 1907-08; M.D., Johns Hopkins, 1911; Asst. in Surg., Hunterian Lab., *ibid.*, 1911-12; *Asst. Res. Surg.*, *P. B. B. H.*, *Sept. 1, 1912-Sept. 1, 1915*; *Res. Surg.*, *ibid.*, *Sept. 1, 1915-July 1, 1920*; Asst. in Surg., Harv.; Assoc. Prof. of Surg., Univ. of Minn. Med. Sch., 1920-22; in practice, Seattle, Washington.

JAMESON, CHARLES HAROLD

A.B., Harv., 1916; M.D., *ibid.*, 1919; *Surg. H. O.*, *P. B. B. H.*, *June 15, 1919-Nov. 1, 1920*; Free Hosp. for Women, Brookline,

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1920-21; *Asst. Res. Surg., P. B. B. H., Feb. 14-June 15, 1921; Asst. Res. Surg., ibid., Sept. 15, 1921-June 21, 1922*; in practice, Rockland, Maine.

JANNEY, JAMES CRAIK

A.B., Harv., 1911; M.D., *ibid.*, 1915; *Surg. H. O., P. B. B. H., July 1, 1915-November 1, 1916*; Major M. C., U. S. Army; H. O., Boston Lying-In Hosp., 1923; Fellow, Am. Coll. Surgs., 1926; First Asst. Obstetrician, Mass. Memorial Hosp.; Asst. Prof. Gynaecology and Instr. in Obstetrics, Boston Univ. Sch. of Med.; in practice, Boston.

JOELSON, JAMES J.

M.D., Columbia, 1920; Surg. Interne, Presbyterian Hosp., New York, 1920-22; *Asst. Res. Surg., P. B. B. H., July 15, 1922-July 26, 1923*; Asst. Res. Surg., New Haven Hosp., and Instr. in Surg., Yale, 1923-24; Asst. Res. Surg. (G. U. Surg.) Lakeside Hosp., 1924-25; Demonstr. in G. U. Surg., Western Reserve Univ., Cleveland, Ohio, 1924-25; Instr. in G. U. Surg., *ibid.*, 1925-27; Clin. Instr., G. U. Surg., *ibid.*, 1927-28; Asst. G. U. Surg., Lakeside Hosp., 1926-28; Assoc. G. U. Surg., *ibid.*; Asst. Prof. G. U. Surg., Western Reserve Univ.

JONES, MERRITT LACOUNT

S.B., Univ. of Wis., 1912; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., July 1, 1915-Nov. 1, 1916; Asst. Res. Surg., ibid., Nov. 1, 1916-March 1, 1917*; Capt., M. C., U. S. Army, 1917-19; in practice, Wausau, Wisconsin.

JONES, WILFRED GRANT

B.S., College of Wooster, Wooster, Ohio, 1921; M.D., Harv., 1924; *Med. H. O., P. B. B. H., May 15, 1924-March 1, 1925*; Missionary work, Miraj, India; Instr. in Med., Miraj Christian Med. Sch.; Med. Supt., Wanless Tbc. San., Miraj, India.

KANE, JOHN W.

B.S., Univ. of Notre Dame, 1926; M.D., Harv., 1930; *Surg. H. O., P. B. B. H., Apr. 1, 1931-Aug. 1, 1932*.

KAZANJIAN, VARAZTAD H.

D.M.D., Harv., 1905; M.D., *ibid.*, 1921; F.A.C.S., 1928; Mem. Harv. Unit, B. E. F., 1915-16; Surg. Specialist for Wounds of Jaws and Face, B. E. F., 1916-19; C. M. G.; *Dental Surg., P. B. B. H., Jan. 22, 1920-Dec., 1922*; Prof. of Clin. Oral Surg., Harv.; Visit. Surg., Oral and plastic Surg., B. C. H.; Surg. for Plastic Operations, Mass. Eye and Ear Infirm.; Consult. Oral Surg., Camb. Hosp.; Mem. of Staff, Consult. Surgeons, Newport Hosp., Newport, Rhode Island; Attend. Specialist, U. S. P. H. S.; Asst. Laryngologist, Huntington Mem. Hosp.; Consult. in Plastic Surg., M. G. H.; Consult. in Oral Surg., Palmer Mem. Hosp.; Member of Staff, N. E. Deaconess Hosp.; Member, Consult. Staff, Beth Israel Hosp.; in practice, Boston.

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KEBABJIAN, HRANT SETRAG

A.B., Anatolia Coll. (Armenia), 1913; M.D., Harv., 1918; Admitting Phys., Babies' Ward, Post Grad. Hosp., New York, 1918; *Surg. H. O., P. B. B. H., Nov. 15, 1918-March 1, 1920*; City Phys., Buffalo, New York, 1920-21; Director, Comm. on Hosps. in Cilicia, 1921-22; Asst. Res., Long Island Hosp., Boston Harbor, 1922-26; in practice, Boston.

KEEGAN, JOHN JAY

A.B., Univ. of Neb., 1912; A.M., *ibid.*, 1914; M.D., *ibid.*, 1915; Instr. in Anat., *ibid.*, 1915-17; *Pathol. H. O., P. B. B. H., June 15, 1917-Dec. 15, 1917*; Lieut., M. C., U. S. Navy, 1917-19; *Surg. H. O., P. B. B. H., Aug. 13, 1919-Nov. 1, 1920*; Asst. Prof. of Pathol., Univ. of Neb., 1920-23; Prof. Clin. Pathol., Director of Clinics, Sec. of the Faculty, *ibid.*, 1923; Neuro-surg., Univ. Hosp.; Dean, Coll. of Med., Univ. of Nebraska, 1925-29; Chairman, Dept. of Surg., *ibid.*; Prof. Neuro-Surg., *ibid.*; in practice, Omaha, Nebraska.

KENDALL, LEE GORDON

A.B., Harv., 1925; M.D., *ibid.*, 1930; *Surg. H. O., P. B. B. H., October 1, 1930-February 1, 1932*; Asst. Res. Surg., *ibid.*, *February 1, 1932-September 1, 1932*; Asst. Res. Surg., N. Y. Hosp.

KENNEDY, W. ROLAND

B.Sc., McGill, 1922; M.D., C.M., *ibid.*, 1925; Interne, rotating service, Montreal Gen. Hosp., 1925-26; Pathol. service, *ibid.*, 1926; Sr. in Med., *ibid.*, 1927-28; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1928-July 1, 1929*; in practice, Montreal, P. Q., Canada.

KENT, HAROLD A.

H.D.S., 1919; Assoc. to Dr. Miner, Prof. of Oral Surg. and Dean, H.D.S.; *Dental Surg., P. B. B. H., 1922-29*; Dental Surg., Forsyth Dental Infirmary; Asst. Prof., Oral Surg., H.D.S.; Dental Surg., N. E. Deaconess Hosp.; *Consult. Dental Surg., P. B. B. H., 1929-33*.

KEYSER, LINWOOD DICKENS

B.A., Virginia, 1914; M.D., Johns Hopkins, 1918; F.A.C.S., 1928; H. O., J. H. H., 1918-19; *Asst. Res. Surg., P. B. B. H., July 1-Nov. 1, 1919*; Res. Surg., New York Post Grad. Hosp., New York City, 1920; Fellow, Mayo Foundation, Rochester, Minnesota, 1920-23; M.S., Mayo Foundation; Univ. of Minn Grad. Sch. in Med., 1921; Attend. Surg. and Surg. Pathol., Roanoke Hosp., Roanoke, Va.

KING, DONALD STORRS

A.B., Oberlin, 1912; M.D., Harv., 1918; H. O., Orthopedic Serv., Children's Hosp.; 1st Lieut., M. C., U. S. Army, 1918-19; Med. H. O., M. G. H., 1919-21; *Assoc. in Pathol., P. B. B. H., May 24, 1921-May 24, 1922*; Fellow in Med., Harv., 1923; Asst. in Med., *ibid.*; Asst. in Med., M. G. H.; Asst. Phys., M. G. H.; Phys., Channing Home; Consult. Phys., Mass. Eye and Ear Infirmary; in practice, Boston.

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KING, WILLIAM ROBERT

B.S., Univ. of Minn., 1913; M.D., Harv., 1917; *Med. H. O., P. B. B. H.*, July 1, 1917-Feb. 1, 1918; *Asst. Res. Phys.*, *ibid.*, Feb. 1-Oct. 24, 1918; in practice, Minneapolis, Minnesota.

KINNEY, KENNETH K.

M.D., Univ. of Iowa, 1921; Surg. Interne, 1 year, Seattle Gen. Hosp.; private practice, 3 years; *H. O., X-ray Dept., P. B. B. H.*, Oct. 1, 1925-April 1, 1926; *Asst. Res. Roent.*, April 1-Oct. 1, 1926; in practice, Willimantic, Conn.

KINSMAN, JAMES MURRAY

B.A., Mt. Allison Univ., Sackville, N. B., 1918; M.D., C.M., McGill Univ., 1922; Pathol. Interne, Royal Victoria Hosp., 1922-23; Demonstr. in Pathol., McGill Univ., 1922-23; *Med. H. O., P. B. B. H.*, July 1, 1923-Nov. 1, 1924; *Asst. Res. Med.*, New Haven Hosp., New Haven, Conn.; *Asst. Prof. of Med.*, Univ. of Louisville; in practice, Louisville, Ky.

KIRK, ESLEY J.

M.D., Univ. of Nebraska, 1926; *H. O.*, Douglas Co. Hosp., Omaha, Nebraska, 1926-27; *Asst. Res. Phys.*, *P. B. B. H.*, Aug., 1927-Aug., 1928; *Jr. Assoc. in Med.*, *ibid.*, Aug., 1928-July, 1929; *Instr. in Med.*, Univ. of Nebraska Med. Coll.; in practice, Omaha, Neb.

KIRKWOOD, ALLAN STEWART

M.D., Univ. and Bellevue Hosp. Med. Coll., New York, 1913; *Assoc. in Med.*, *P. B. B. H.*, Nov. 1-Dec. 31, 1917; Major, M. C., U. S. Army; Visit. Neuro-Psychiatrist, Mountainside Hosp., Montclair, N. J.; Consult. Phys., Children's Hosp., Montclair, New Jersey; in practice, Montclair, N. J.

KLUMPP, THEODORE G.

B.S., Princeton, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H.*, March 1, 1929-July 1, 1930; *Asst. Res. Med.*, Lakeside Hosp., 1930-32; *Instr. in Med.*, Yale Univ.; *Assoc. Phys.*, New Haven Hosp.

KOEFOD, HILMAR OLAF

B.S., Beloit, 1911; M.D., Harv., 1916; Moseley Travelling Fellowship, *ibid.*, in Europe, summer of 1916; *Med. H. O., P. B. B. H.*, Nov. 1, 1916-Nov. 1, 1917; 1st Lieut., M. C., U. S. Army, 1917-18; Chief of Clin. at Mem. Lab. and Clin., Santa Barbara, Cal.; *Asst. in Med.*, Med. Sch., Univ. of Cal.; *Asst. to Prof. H. C. Moffit* in his private work; Chief of Med. Dept., Santa Barbara Clin.; *Attend. Phys.*, Cottage Hosp., Santa Barbara, Cal.; in practice, Santa Barbara, California.

KOHN, LAWRENCE A.

A.B., Williams, 1914; work in Bacteriol. with Dr. Park, New York, 1914-17; work in Bacteriol. with army in France, 1917-19; 1st Lieut., San. Corps, 1918-19; M.D., Johns Hopkins, 1923; *Med. Interne*, *ibid.*; *Asst. Res. Phys.*, *P. B. B. H.*, Sept. 15, 1924-Sept.

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1, 1925; Instr. in Med., Univ. of Rochester; Res. Phys., Strong Mem. Hosp., Rochester, N. Y., 1925-27; Asst. Prof. Med., Univ. of Rochester; Asst. Phys., Strong Mem. Hosp.; in practice, Rochester, New York.

KREUTZMANN, HENRY ADOLPH ROBERT

M.D., Univ. of Pa., 1916; *Surg. H. O., P. B. B. H., March 1, 1917-Feb. 4, 1918*; Lieut., M. C., U. S. Army; Urologist for N. W. P. R. R.; Chief Urol., Chinese Hosp., San Francisco; Instr. in Urol., Stanford Univ.; in practice, San Francisco, California.

LADD, WILLIAM SARGENT

B.S., Amherst, 1910; M.D., Columbia, 1915; *Med. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1917*; Asst. Phys., Presbyterian Hosp., New York, and Instr. in Med., Columbia, 1918-19; 1st Lieut., M. C., U. S. Army; Asst. in Med., J. H. H., and Instr. in Med., Johns Hopkins, 1919-21; Instr. in Med., Columbia, 1921-24; Assoc. in Med., *ibid.*; Asst. Phys., Presbyterian Hosp., New York, 1924-31; Assoc. Dean and Asst. Prof. Clin. Med., Cornell Univ. Med. Sch.

LAMSON, PAUL DUDLEY

A.B., Harv., 1905; M.D., *ibid.*, 1911; Med. House Pupil, M. G. H., 1909-10; Lect. Asst. in Pharm., Univ. of Wurzburg, Germany, 1912-13; Sheldon Travelling Fellow, Harv., 1911-13; *Asst. Res. Phys., P. B. B. H., Oct. 1, 1913-Oct. 15, 1914*; Asst. in Exp. Therapeutics, Johns Hopkins, 1914-15; Assoc. in Pharmacology, *ibid.*, 1916-20; Assoc. Prof. Pharmacology, *ibid.*, 1921-25; Prof. Pharmacology, Vanderbilt Univ. Sch. of Med.

LANMAN, THOMAS HINCKLEY

A.B., Harv., 1912; M.D., *ibid.*, 1916; *Assoc. in Urol., P. B. B. H., March 22, 1920-June 26, 1922*; Instr. in Surg., Harv.; Assoc. Visit. Surg., Children's Hosp.; Visit. Surg., Children's Serv., Cambridge Hosp.; in practice, Boston.

LAWRENCE, JOHN H.

M.D., Harv., 1930; *Surg. H. O., P. B. B. H., Apr. 1, 1930-Aug. 1, 1931*; Asst. Res. and Asst. in Med., Univ. of Rochester Med. Sch., 1931-32; Asst. Res. in Med., New Haven Hosp.; Res. Phys., *ibid.*

LEGGE, ROBERT F.

M.D., C.M., McGill, 1930; *Surg. H. O., P. B. B. H., Jan. 1, 1931-Apr. 1, 1931.*

LEHMAN, EDWIN PARTRIDGE

A.B., Williams, 1910; M.D., Harv., 1914; *Surg. H. O., P. B. B. H., July 1, 1914-July 1, 1915*; Asst. Res. Surg., Barnes Hosp., St. Louis, Missouri, 1915-16; Asst. in Surg., Washington Univ., 1916-20; 1st Lieut., M. C., U. S. Army, 1917-19; Res. Surg., Barnes Hosp., St. Louis, 1919-20; Instr. in Surg., Instr., Asst. Prof. and Assoc. Prof. Clin. Surg., Washington Univ., 1920-28; Prof. of Surg. and Gyn. and Director, Surg. Dept., Univ. of Va.

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LEWIS, EDWIN RAY

M.D., Boston Univ., 1901; Asst. Surg., Clinton Hosp., 1907; Asst. Supt., Mass. Homœopathic Hosp., 1909; Act. Supt., *ibid.*, 1916; Supt., Hahnemann Hosp., Rochester, New York, 1916; Supt., Flower Hosp., 1919-20; Capt., M. C., U. S. Army, 1918-19; *Second Asst. Supt., P. B. B. H., April 11, 1921-Oct. 1, 1923*; Supt., Easton Hosp., Easton, Pennsylvania, 1923-26; Supt., Burbank Hosp., Fitchburg.

LEWIS, JR., WILLIAM H.

A.B., Harv., 1922; M.D., *ibid.*, 1926; Interne, Allegheny Gen. Hosp., Pittsburgh, Pa., July 1, 1926-July 1, 1927; *Med. H. O., P. B. B. H., July 1, 1927-March 1, 1928*; Neurol. H. O., B. C. H., 1928; Res. Pathol., Palmer Mem. Hosp., 1928-29; Res. in Pathol., Huntington Mem. Hosp.; Asst. Pathol., Pondville Hosp.; Asst. in Pathol., Harv., 1929-30; Student at Allgemeines Krankenhaus Eppendorf, Hamburg, 1930-31, and Hôpital Lariboisière, Paris, 1931; in practice, Donora, Pa.

LIEB, CLARENCE WILLIAM

A.B., Colorado, 1908; A.M., *ibid.*, 1909; M.D., Harv., 1914; *Pathol. H. O., P. B. B. H., April 1-June 6, 1914 (resigned)*; Med. Director, "The Glen Springs," Watkins, New York, 1914-17 (resigned); in practice, Gastro-enterology, New York.

LIEBMAN, CHARLES

Ph.B., Yale, 1917; M.D., Harv., 1921; X-ray Dept., Base Hosp., Camp Devens; X-ray Dept., Mass. Eye and Ear Inf.; X-ray Dept., New Haven Hosp.; *X-ray H. O., P. B. B. H., June 1, 1921-July 1, 1922*; Roentgenologist, Children's Hosp., Boston, 1922-26; Asst. Roent., Boston Disp. and Beth Israel Hosp., Boston.

LOCKE, JR., CHARLES EDWARD

A.B., M.S., Univ. of Cal., 1916; M.D., *ibid.*, 1919; S.D. (*en Chirurgie*), Univ. of Brussels, 1922; Med. and Surg. H. O., Univ. of Cal. Hosp.; *Asst. Res. Surg., P. B. B. H., June 15, 1920-June 1, 1921*; Asst. on Visit. Surg. Staff, Dr. Depage's Service, St. Pierre Hosp., Brussels; Asst. Etranger, Prof. Pierre Marie's Serv., Salpêtrière, Paris, 1921-22; Fellow, C.R.B., Educational Foundation, 1921-22; Asst. Dept. of Surg., Univ. of Cal. Med. Sch.; Fellow, National Research Council, 1922-23; Full-time Instr. in Surg., Univ. of Cal.; Staff, Hooper Research Foundation, 1923-24; Neurol. Surg., Cleveland Clinic. *Died, Cleveland Clinic disaster, May 15, 1929.*

LOURIA, HENRY WALTER

A.B., Columbia, 1916; M.D., *ibid.*, 1919; Surg. H. O., Presbyterian Hosp., New York, 1919-20; *Med. H. O., P. B. B. H., July 1, 1920-Oct. 1, 1921*; Stud., M. I. T., 1921; Med. Interne, J. H. H., 1921-22; Asst. Surg., Brooklyn Jewish Hosp.; Instr. in Surg., Coll. of Phys. and Surg.; Vol. Asst., Surg. Serv. of Prof. H. Von Haberer, Graz, Austria, Oct., 1927-Feb., 1928; Assoc. Surg., Brooklyn Jewish Hosp.; Asst. Surg., King's Co. Hosp.; in practice, Brooklyn, N. Y.

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LUGER, ALFRED

M.D., Univ. of Vienna; Demonstr., Histological Inst., Univ. of Vienna, May, 1909-May, 1911; Klinik Neusser, Vienna, May, 1911-Sept., 1911; Director, Roentgen Lab., Klinik Neusser, Vienna, Sept., 1911-Dec., 1912; *Roentgenologist*, *P. B. B. H.*, Jan. 1, 1913-June 1, 1914 (granted leave of absence from June 1, 1914-Dec. 14, 1915; Asst. in Roentgenology and Asst. in Med., H. M. S., 1914-15; Army Phys., 1915-18; Asst. Bacteriol. Inst., Prof. Dorr, Vienna, 1918-19; Asst. at II. Med. Clin. (Prof. Ortner), Vienna, 1919-29; Privatdozent f. Innere Medizin, Univ. of Vienna; Ausserordenlich Univ. Prof., *ibid.*; Director of II. Med. Div., Kaiserin Elisabeth Hosp., Vienna.

LYLE, EVELINE BURTON

B.A., Mt. Holyoke Coll., 1906; M.D., Tufts Coll. Med. Sch., 1913; *Act. Assoc. in Med.*, *P. B. B. H.*, Nov. 1-Dec. 31, 1917; Visit. Phys. and Obstetrician, N. E. Hosp. for Women and Children; Med. Examiner for Winsor School, Milton Academy Girls' School, Brookline High School Girls, Boston University School of practical Arts, Penn. Mutual Life Insurance Co., John Hancock Life Ins. Co., United Life and Accident Insurance Co.; in practice, Boston.

LYNCH, JR., JAMES JOSEPH

B.S., Notre Dame Univ., 1915; M.D., Harv., 1919; H.O., Boston Lying-In Hosp., 1919; *Med. H. O.*, *P. B. B. H.*, July 1, 1919-July 1, 1920; H. O., Cambridge City Hosp., 1920-21; Jr. Visit. Obstetrician, St. Elizabeth's Hosp.; Jr. Asst. Surg., Boston Disp.; in practice, Boston.

LYON, DON DEE

S.B., Wash. Univ., 1914; M.D., Harv., 1920; H. O., Huntington Hosp., 1919-20; Interne, Bridgeport Hosp., 1920-21; *Surg. H. O.*, *P. B. B. H.*, March 1, 1921-July 1, 1922; Res. Phys., Blodgett Mem. Hosp., Grand Rapids, Mich.; Int. Med., Grand Rapids Clin., 1924-25; in practice, Olympia, Washington.

MACMILLAN, STUART FORBES

B.S., Union College, Schenectady, New York, 1920; M.D., Albany Med. College, 1925; Interne, Albany Hosp., 1925-26; *Pathol. H. O.*, *P. B. B. H.*, July 1, 1926-July 1, 1927; Asst. Surg. and Surg. to O. P. D., Ellis Hosp., Schenectady; in practice, Schenectady, N. Y.

MAHONEY, WILLIAM DE G.

A.B., Holy Cross, 1925; M.D., Harv., 1929; *Surg. H. O.*, *P. B. B. H.*, Oct. 1, 1929-Feb. 1, 1931; *Asst. Res. Surg.*, *ibid.*, Mar. 15, 1931-Apr. 1, 1932; *P. B. B. H. Traveling Fellow in Surg.*, 1932; Asst. Res. Surg., N. Y. Hosp.; Asst. in Surg., Cornell Univ., 1932-34; Research Asst. in Neuro-Surg., Yale Univ.

MALLORY, TRACY BURR

M.D., Harv., 1921; *Med. H. O.*, *P. B. B. H.*, March 1, 1922-July 1, 1923; Instr. in Bacteriol., Harv., 1924-26; Instr. in Path., *ibid.*; Pathol., M.G.H.

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MANN, ALBERT HOWELL

M. D., Tulane Univ., 1926; *Med. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927*; in practice, Texarkana, Ark.

MARINUS, CARLETON J.

B.Sc., Syracuse, 1915; M.Sc., *ibid.*, 1917; M.D., Univ. of Mich., 1921; *Med. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923*; in practice, Detroit, Michigan.

MARKHAM, BLACKWELL

A.B., Univ. of N. C., 1917; M.A., *ibid.*, 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923*; Res. Surg., Fifth Ave., Hosp., 1923-24; Assoc. Attend. Surg., Watts Hosp.; Instr. in Surg., Duke Univ.; in practice, Durham, N. C.

MARLOW, SEARLE BISSET

A.B., Harv., 1912; Stud., Harv., 1 year; M.D., Syracuse, 1916; *Pathol. H. O., P. B. B. H., July 1, 1916-June 11, 1917*; Capt., M. C., U. S. Army, 1918-19; House Surg., Herman Knapp Hosp., New York, 1920-21; Asst. Prof. of Ophthal., Syracuse Univ.; Ophthalmologist, Syracuse Fre Disp., St. Joseph's Hosp., and Syracuse Mem. Hosp.; in practice, Syracuse, New York.

MARQUIS, FRED M.

B.A., Univ. of Iowa, 1927; M.D., *ibid.*, 1931; *Pathol. H. O., P. B. B. H., July 1, 1931-January 1, 1932*; H. O., Truesdale Hosp., Fall River, Januar-March, 1932; H. O., Presbyterian Hosp., Chicago, April, 1932-September, 1933; in practice, Waterloo, Iowa.

MARTIN, PAUL

S.B., Brussels, 1911; M.D., *ibid.*, 1920; Med. Interne, Hosp. St. Pierre, Brussels, 1919-20; Surg. Interne, New Haven Hosp., 1920-21; *Assoc. in Surg., P. B. B. H., Sept. 1, 1921-March 1, 1922*; *Asst. Res. Surg., ibid., March 1-Nov. 1, 1922*; Asst. in Surg., Brussels Univ. Hosp.; in practice, Brussels, Belgium; Arthur Tracy Cabot Fellow, Harv., 1929-30; *Assoc. in Surg., P. B. B. H., Jan.-April, 1930*.

MARVIN, FRANK WILLIAM

A.B., Harv., 1910; M.D., *ibid.*, 1914; House Pupil, M. G. H., 1914-15; *Surg. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1916*; Visit. Anesthetist, B. C. H., Newton Hosp., Boston Psychopathic Hosp.; Boston Dispensary; Head, Dept. of Anesthesia, Tufts Med. Sch.; in practice, Boston.

MARVIN, HAROLD MYERS

A.B., Davidson Coll., 1914; M.D., Harv., 1918; *Med. H. O., P. B. B. H., Feb. 13, 1918-Feb. 9, 1919*; Dist. Phys. with Near East Relief, Alexandropol, Armenia, 1919-20; Asst. in Med., Harv.; Asst. in Med., M. G. H., 1920-21; Instr. in Med., Yale, 1921-23; Asst. Prof. of Med., 1923-28; Fellow, John Simon Guggenheim Memorial

PETER BENT BRIGHAM HOSPITAL

Foundation, 1926-27 (in laboratory of Sir Thomas Lewis, Univ. of Coll. Hosp. Med. School, London); Asst. Prof. Clin. Med., Yale, 1928-33; Assoc. Clin. Prof. Med., *ibid.*

MASON, B. HENRY

M.D., Bowdoin, 1907; Gen. Internship, Maine Gen. Hosp., 1907-08; Asst. Phys., State Asylum, Worcester, Aug., 1908-Nov., 1913; in practice, Portland, Maine, 1913-14; Asst. Phys., Worcester State Hosp., Feb., 1914-May, 1914; Asst. Supt., *ibid.*, May, 1914-June 18, 1918; Act. Supt., *ibid.*, June 18, 1918-April 1, 1921; Neuro-Psychiatrist, Advisory Board A and B, Worcester, Massachusetts, during draft; Asst. Director, Psychopathic Hosp., Ann Arbor, Michigan, April, 1921-Jan., 1923; Neuro-Psychiatrist, U. S. V. B.; Instr. in Psychiatry, Univ. of Mich. Med. School, 1921-23; *First Asst. Supt., P. B. B. H., Jan. 8, 1923-Dec. 1, 1927*; Pres., Conn. Hosp. Assoc., 1929-31; Supt., Waterbury Hosp., Waterbury, Conn.

MASSEE, JOSEPH C.

B.S., John B. Stetson Univ., 1922; M.D., Harv., 1925; *Med. H. O., P. B. B. H., Nov. 1, 1925-March 1, 1927*; Res. Phys., Federal Prison, Atlanta, 1927-28; Assoc. Editor, Journal of the Medical Assoc. of Georgia; Instr. in Med., Emory Univ.; Assoc. Visit. Phys., Grady Hosp., Emory Univ. Hosp., and Georgia Baptist Hosp.; in practice, Atlanta, Ga.

MAUPIN, JR., JAMES L.

A.B., Univ. of Calif., 1921; M.D., Stanford, 1926; Interne, Lane and Stanford Hosp., 1925-27; in practice, Fresno, Calif., 1927-28; Member, Fresno Co. Gen. Hosp. Staff, 1927-28; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1928-March 1, 1929*; Surg. Staff, Fresno Gen. Hosp.

MCCANN, WILLIAM SHARP

A.B., Ohio State Univ., 1911; M.D., Cornell, 1915; Asst. Res. Phys., Gen. Mem. Hosp., New York, 1915; *Surg. H. O., P. B. B. H., Nov. 1, 1915-Nov. 1, 1916 (resigned)*; Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv.; Capt., M. C., U. S. Army; Instr. in Med., Cornell; Research Fellow, Russell Sage Inst. of Pathol.; Adjunct Visit. Phys., Bellevue Hosp., New York; Consult. Phys., N. Y. State Reconstruction Hosp.; Assoc. Phys., J. H. H., Baltimore, Md.; Assoc. in Med., Johns Hopkins; Assoc. Prof. Med., *ibid.*; Dewey Prof. of Med., Univ. of Rochester, Rochester, N. Y.

MCCARTHY, PATRICK THOMAS

B.S., Univ. of Chicago, 1914; M.D., Rush Med. Coll., 1917; *Surg. H. O., P. B. B. H., Dec. 15, 1917-Oct. 1, 1918*; *Asst. Res. Surg., ibid., Oct. 1, 1918-Feb. 9, 1919*; Relief Comm., Near East, Armenia, 1919-20; Post Grad. Study in Europe, 1920; Surg., Western Montana Clin., Missoula; in practice, Missoula, Montana.

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McCARTY, ELBA DENTON

M.D., Univ. of Mich., 1903; Interne, 2 years, St. Mary's Hosp., Saginaw, E. S., Mich.; Gen. Practice, Merrill, Mich., 1905-09; Priest River, Idaho, 1909-17; *Roentgenologist, P. B. B. H., July 1, 1918-Oct. 14, 1919*; in practice, Tacoma, Washington.

McCLURE, CHARLES WALTER

A.B., Ohio State Univ., 1906; M.D., Starling Med. Coll., Ohio, 1910; Med. H. O., St. Francis Hosp., Columbus, Ohio, 1910-11; Asst. in Clin. Med., Starling Med. Coll., 1911-12; Asst. in Med., Univ. of Iowa Med. Sch., 1912-15; Grad. Stud. in Med., Harv., 1915-16; *Asst. Res. Phys., P. B. B. H., July 1-Nov. 1, 1916*; Alumni Asst. in Med., Harv.; *Res. Phys., P. B. B. H., June 7-July 6, 1917*; Phys.-in-Chief, St. Luke's Hosp., South Bethlehem, Pa., 1917-18; Capt., M. C., U. S. Army, 1918; *Assoc. in Med., P. B. B. H., Feb. 13, 1919-Sept. 1, 1921*; Visit. Phys., Mass. Memorial Hospitals; Gastroenterologist, O. P. D., *ibid.*; Member of Sr. Staff in charge of the Div. of Gastro-Intestinal Research, Evans Memorial for Med. Research; Member of staff, B. C. H.; Asst. Prof. of Med., Boston Univ. Sch. of Med.; in practice, Boston.

McEACHERN, THOMAS H.

B.A., Univ. of Mich., 1925; M.D., *ibid.*, 1927; Vol. Asst., Pathol. Dept., Univ. of Mich., July-Nov., 1927; *Med. H. O., P. B. B. H., March 1, 1928-July 1, 1929*; Pediatric H. O., N. Y. Nursery and Child's Hosp., 1929-30; Asst. Res. Pediatrician, *ibid.*, April 1-July 1, 1930; Res. Pediatrician, *ibid.*, 1930-31; Asst. in Pediatrics, Cornell Univ.; Asst. Attend. Pediatrician, N. Y. Hosp.

McGRATH, ROBERT

B.S., Northwestern, 1924; M.D., *ibid.*, 1928; Interne, St. Luke's Hosp., Chicago; *Jr. Assoc. in Med., P. B. B. H., Sept. 15, 1929-May 1, 1930*; *Asst. Res. Phys., ibid., May 1, 1930-September 1, 1930*; Inst. in Med., N. Y. Post-Grad. Med. Sch.; in practice, New York City.

McKEAN, RICHARD M.

A.B., Univ. of Mich., 1916; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., Dec. 15, 1919-March 1, 1921*; H. O., Infants' Hosp., Boston, 1921; Assoc. Prof. of Med., Detroit Coll. of Med. & Surg.; Attend. Phys. and Director of Metabolic Unit, Detroit Receiving Hosp.; Jr. Phys., Harper Hosp.; Consult. in Metab., Herman Kiefer Hosp.; in practice, Detroit, Michigan.

McKENZIE, KENNETH G.

M.B., Toronto; M.D., *ibid.*, 1914; Interne, Toronto Gen. Hosp., 1914; Capt., Imp. Army M. C., 1914-19; Instr. in Anat., Univ. of Toronto, 1919 (on leave of absence to work with Dr. Cushing under the Mickle Fellowship of Toronto Univ.); *Asst. Res. Surg., P. B. B. H., Nov. 1, 1922-Nov. 1, 1923*; Surg. Staff, Toronto Gen. Hosp.; in practice, Toronto, Canada.

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MCLEAN, ARTHUR JOHN

A.B., Reed Coll., Portland, Oregon, 1921; M.D., Johns Hopkins, 1925; *Surg. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926*; *Assoc. in Surg., ibid., Jan. 10-Sept. 23, 1927*; Arthur Tracy Cabot Fellow, Harv., 1926-27; *Asst. Res. Surg., P. B. B. H., Sept., 1927-June, 1929*; *Act. Res. Surg., ibid., June-Sept., 1929*; George Gorham Peters Traveling Fellow, 1929-30; *Res. Surg., P. B. B. H., Oct. 1, 1930-June 1, 1931*; Instr. in Surg., Univ. of Oregon Med. Sch.; Instr. in Neuropathol., *ibid*; in practice, Portland, Oregon.

MCLESTER, JAMES BOWRON

A.B., Univ. of Ala., 1926; M.D., Harv., 1930; *Med. H. O., P. B. B. H., March 1, 1931-March 1, 1932*; Asst. Res. Phys., N. Y. Hosp., 1932-33; Assoc. Attend. Phys., Hillman Hosp., Birmingham, Alabama; Clin. Asst. in Med., Univ. of Ala.; in practice, Birmingham, Alabama.

MCQUESTEN, PHILIP

A.B., Dart., 1911; M.D., Harv., 1915; Stud., B. C. H. (Pathol. Lab.), 1915-16; *Surg. H. O., P. B. B. H., March 1, 1916-July 1, 1917*; *Asst. Res. Surg., ibid., July 1-Aug. 17, 1917*; in practice, Nashua, New Hampshire.

MEAGHER, RICHARD

Ph.B., Yale, 1921; M.D., Cornell, 1927; *Pathol. H. O., P. B. B. H., Sept. 1, 1927-Jan. 1, 1928*; *Surg. H. O., ibid., April 1, 1928-Aug. 1, 1929*; *Asst. Res. Surg., ibid., Aug. 1, 1929-May 1, 1930*; *Jr. Assoc. in Surg., ibid., May-Oct., 1930*; *Asst. Res. Surg., ibid., Oct. 1, 1930-June 1, 1931*; Arthur Tracy Cabot Fellow in Surg., Harv., 1930; *Res. Surg., P. B. B. H., June 1, 1931—Sept. 1, 1932*.

MENARD, OLIVER J.

B.S., Colgate, 1922; M.D., Jefferson Med. College, 1926; Interne, Rochester General Hosp., July 1, 1926-July 1, 1927; Asst. Clin. Phys., Rome State School, July 1, 1927-Oct. 15, 1927; *Med. H. O., P. B. B. H., Nov. 1, 1927-March 1, 1929*; Asst. Res. in Med., Long Island Hosp., Nov.-July, 1929; Asst. in Med., Lahey Clinic, Boston.

MIDDLETON, RICHARD

M.D., Harv., 1927; Rotating Internship, Philadelphia; Res. Surg., Memorial Hosp., Worcester; *Asst. Res. Surg., P. B. B. H., Sept. 15, 1930-July 15, 1931*; in practice, Salt Lake City, Utah.

MILLET, JOHN ALFRED PARSONS

A.B., Harv., 1910; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., Nov. 1, 1914-March 1, 1916*; Internist, New York State Inst. for the Study of Malignant Disease, Buffalo, 1916-19; Capt., M. C., U. S. Army, 1917-19; Asst. Attend. Phys., Buffalo Gen. Hosp.; Assoc. in Med., Buffalo Univ. Med. Sch., and Asst. to the Chiefs of Med. Div., Dept. of Hospitals and Dispensaries, Buffalo, New York, 1916-23; Phys., Austen Riggs Foundation, Stockbridge, Massa-

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chusetts, 1923-30; Instr. in Psychiatry, Columbia; Asst. Atten. Psychiatrist (Children) Vanderbilt Clin., 1930-32; Fellow in Psychiatry, Cornell; Consult. Psychiatrist, "Silver Hill, Inc.," New Canaan, Connecticut; in practice (Psychiatry), New York City.

MILLIKEN, SAMUEL GIBBS

M.D., Univ. of Texas, 1922; Sr. Instr. in Pathol., Univ. of Texas, 1922; *Surg. H. O., P. B. B. H., March 1, 1924-Feb. 1, 1925*; Asst. Prof. of Path., Univ. of Texas; Visit. Phys., Methodist Hosp. and Memorial Hosp., Houston, Texas; in practice, Houston, Texas.

MONTGOMERY, JAMES BLAINE

A.B., Dart., 1911; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1917*; House Surg., Mass. Eye and Ear Infirmary, 1917; Grad., Army Med. Sch., 1917; 1st Lieut., M. C., U. S. Army; Major, Med. Corps, U. S. Army, Washington, D. C. *Deceased.*

MOORE, RICHMOND LAWRENCE

A.B., Univ. of Va., 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., Nov. 1, 1922-March 1, 1924*; *Asst. Res. Surg., ibid., July 1, 1924-July 1, 1925*; Asst. Res. Phys., Hosp. of the Rockefeller Inst., New York, July 1, 1925-Aug., 1927; Fellow in Surg., Presbyterian Hosp., 1928-32; Asst. Attend. Surg., *ibid.*; Instr. in Surg., Columbia Univ.; in practice, New York City.

MORRIS, LAIRD M.

M.D., Univ. of Cal., 1916; *Asst. Res. Phys., P. B. B. H., April 15, 1920-Oct. 1, 1920*; Asst. in Med., Univ. of Cal. Med. Sch., 1921-22; Instr. in Med., *ibid.*, 1923; Instr. in Med., Stanford Med. School; in practice, San Francisco, California.

MORRIS, JR., SAMUEL LESLIE

B.S., Davidson (N. C.), 1911; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., Nov. 1, 1916-Nov. 1, 1917*; 1st Lieut., M. C., U. S. Army; 1st Asst. House Surg., St. Louis Southwestern Hosp., 1919; Chief House Surg., *ibid.*; in practice, Atlanta, Georgia.

MORTON, JOHN JAMIESON

A.B., Amherst, 1907; M.D., Johns Hopkins, 1913; *Surg. H. O., P. B. B. H., March 1, 1913-July 1, 1914*; Fellow in Pathol., Rockefeller Inst., New York City, 1914-15; House Surgeon, M. G. H., 1915-16; Asst. Res. Phys., Rockefeller Inst. Hosp., New York, 1916-17; Major, M. C., U. S. Army, 1917-19; practice, Orthopedic Surg., Boston, Massachusetts; Grad. Asst., O. P. D., Children's Hosp., Boston, and Asst. Orthopedic Surg., *ibid.*, 1919-21; Asst. Prof. Surg., Yale, 1921-24; Prof. Surg., Rochester Univ. Sch. of Med. and Dentistry, Rochester, New York.

MUNTER, EDGAR J.

M.D., Univ. of Calif., 1926; Interne, Med. and Surg., Univ. Hosp., San Francisco, 1925-26; Asst. Res. in Med., *ibid.*, 1926-27; *Asst.*

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Res. Phys., P. B. B. H., 1927-28; Asst. in Med., Univ. of Cal. Med. Sch., 1928-31; Instr. in Med., ibid.; Adjunct in Med., Mt. Zion Hosp., San Francisco; in practice, San Francisco, Calif.

MYERS, GORDON

A.B., Univ. of Mich., 1924; M.D., *ibid.*, 1927; Interne; Asst. Res. in Med., and Res., Receiving Hosp., Detroit, 1927-30; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1930-July 1, 1932.*

NELLANS, CHARLES T.

B.S., Univ. of Chicago, 1916; M.D., Rush Med. Coll., 1918; Mem. Res. Staff, Presbyterian Hosp., Chicago, 1918-19; *Med. H. O., P. B. B. H., Sept. 15, 1919-Nov. 1, 1920; Asst. in Med., Yale, 1921; Instr. in Med., ibid., and Res. Phys., New Haven Hosp., 1921-22; Instr. in Med., Emory Univ., and Asst. Visit. Phys., Wesley Mem. and Grady Hospitals, Atlanta, Ga.; in practice, Atlanta, Ga.*

NICHOL, ARTHUR D.

M.D., Ohio State Univ., 1926; Interne, St. Luke's Hosp., Cleveland, 1926-28; *Asst. Res. Phys., P. B. B. H., Aug., 1928-Aug., 1929; Demonstr. in Med., Western Reserve Univ., 1929; Assoc. in Med., St. Luke's Hosp., Cleveland, Ohio; Asst. Visitant, Med. Dept., ibid.; Asst. Visit. Phys., O. P. D., Lakeside Hosp.; Visitant in Med., St. Luke's Hosp., Cleveland.*

NICHOLS, ALVORD G.

A.B., Colgate, 1916; M.D., Harv., 1921; Interne, Worcester City Hosp., 1921-23; Act. Asst. Supt., *ibid.*; *Second Asst. Supt., P. B. B. H., Sept. 17, 1923-June 1, 1924; Asst. Med. Director, John Hancock Life Insurance Co., Boston. Died May 18, 1926.*

NICHOLS, 3D, ANDREW

A.B., Harv., 1912; M.D., *ibid.*, 1916; Surg. H. O., B. C. H., 1916-17; Capt., M. C., U. S. Army, 1917-19; *Second Asst. Supt., P. B. B. H., July 1, 1919-Feb. 1, 1921; in practice, Danvers, Massachusetts.*

NORFLEET, JR., WILLIAM J.

D.M.D., Harv., 1931; *Dental Interne, P. B. B. H., August 1, 1931-June 13, 1932; in practice, Suffolk, Virginia.*

NOVY, ROBERT LEV

A.B., Univ. of Mich., 1913; M.S., *ibid.*, 1914; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., April 15, 1919-April 1, 1920; in practice, Detroit, Michigan.*

O'CONOR, VINCENT JOHN

B.S., Univ. of Mich., 1915; M.D., Rush Med. Coll., 1917; *Surg. H. O., P. B. B. H., Jan. 1, 1917-Jan. 1, 1918; House Surgeon, Presbyterian Hosp., Chicago, Ill., 1918; 1st Lieut., M. C., U. S. Army, 1918-19; Asst. Res. Surg., P. B. B. H., Feb. 15, 1919-July 15, 1920; Urol. Surg., Washington Boulevard Hosp.; Assoc. Prof., G. U. Surg.,*

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Univ. of Ill., Sch. of Med.; Urol. Surg., Lutheran-Deaconess Hosp., Chicago; Urol. Surg., Garfield Park Hosp.; in practice, Chicago, Illinois.

OLDBERG, ERIC

B.S., Northwestern, 1923; M.S., *ibid.*, 1926; M.D., *ibid.*, 1927; Ph.D., *ibid.*, 1928; Asst. in Chemistry, *ibid.*, 1922-23; Asst. in Physiol. and Pharmacol., *ibid.*, 1925-27; Instr. in Physiol., *ibid.*, 1927-28; Elizabeth J. Ward Fellow in Physiol., *ibid.*, 1927; *Surg. H. O., P. B. B. H.*, Jan. 1, 1928-Apr., 1929; Asst. Res. Surg., *P. B. B. H.*, Apr. 1, 1929-Oct. 1, 1930; George Gorham Peters Traveling Fellow in Berlin and Oxford, 1930-31; Asst. Prof. of Surg., in charge of Neuro-Surgery, Univ. of Illinois, Chicago, Ill.; Attend. Neuro-Surg., Illinois Research and Education Hosp., and St. Luke's Hosp., Chicago; Consult. Neuro.-Surg., Illinois Central Hosp., Chicago.

O'MEARA, JOHN WILLIAM

A.B., Holy Cross, 1912; M.D., Harv., 1918; *Surg. H. O., P. B. B. H.*, Jan. 7, 1918-Jan. 7, 1919; Orthopedic H. O., Children's Hosp., Boston, 1919; Comm. for Relief in Near East, in charge of Surg. Wards, American Hosp., Samsoun, Turkey-in-Asia, 1919-20; Orthopedic Surg., St. Vincent's Hosp., Worcester; Sr. Orth. Surg., Worcester City Hosp.; in practice, Worcester, Massachusetts.

OPPENHEIMER, ELLA

A.B., Bryn Mawr, 1914; M.D., Johns Hopkins, 1918; *Med. H. O., P. B. B. H.*, Sept. 1, 1918-June 11, 1919; Phys. in Charge, Baby Summer Hosp. Camp, Washington, D. C., 1920; Examining Phys. (Girls), Juvenile Court, Washington, D. C., 1920-21; Asst. Visit. Phys., Children's Hosp.; Phys., National Training School for Girls; Research Asst., Federal Children's Bureau; Assoc. Pediatricist, Providence Hosp., Washington, D. C.; Director, Div. of Child Hygiene, Children's Bureau, U. S. Dept. of Labor, 1922-24; Residence, Bethesda, Md.

ORMOND, ALEXANDER T.

A.B., Princeton, 1912; M.D., Johns Hopkins, 1919; *Surg. H. O., P. B. B. H.*, Nov. 1, 1919-March 1, 1921. *Deceased.*

ORMOND, JR., ALFRED CURTIS

A.B., Davidson, 1922; M.D., Harv., 1927; *Surg. H. O., P. B. B. H.*, October 1, 1927-February 1, 1929; Surg. Res., Peck Mem. Hosp., Brooklyn, New York, 1929-30; Chief Res., Williamsport Hosp., 1930-31; in practice, Byesville, Ohio.

ORR, JR., LOUIS M.

B.S., Emory Coll., 1922; M.D., Atlanta Med. Coll., 1924; Jr. Interne, Grady Hosp., Atlanta, Ga., 1923-24; *Surg. H. O., P. B. B. H.*, July 1, 1924-Nov. 1, 1925; Asst. Res. Surg., Lakeside Hosp., Cleveland; in practice, Orlando, Florida.

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OSGOOD, RUDOLF

S.B., Harv., 1924; M.D., Univ. of Chicago, 1929; *Pathol. H. O., P. B. B. H., July 1, 1929-July 1, 1930*; Res. Pathol., Children's Hosp., Boston, 1930-31; *Res. Pathol., P. B. B. H., 1931-32*; Res. Pathol., B. L. I., 1932-33; Instr. in Pathol., Tufts Med. Coll.

OUGHTERSON, ASHLEY W.

M.D., Harv., 1924; M.S., Yale, 1929; *Pathol. H. O., P. B. B. H., Jan. 1, 1924-Jan. 1, 1925*; Surg. H. O., New York Hosp., Jan. 1, 1925-Jan. 1, 1927; Res. Surg., 1st Surg. Div., Bellevue Hosp., New York, Jan. 1, 1927-July 1, 1927; *Asst. Res. Surg., P. B. B. H., 1927-28*; William Harvey Cushing Fellow in Surg., Yale Univ., 1928-29; Asst. Prof. of Surg., *ibid.*

PARKER, JR., FREDERICK

A.B., Harv., 1913; M.D., *ibid.*, 1916; *Med. H. O., P. B. B. H., March 1-April 1, 1917*; Asst. Pathol., B. C. H.

PARKINS, LEROY EDWARD

A.B., Simpson Coll., 1912; M.D., Harv., 1918; Asst. Res., Boston Consumptives' Hosp.; Asst. Res., So. Dept., B. C. H.; *Surg. H. O., P. B. B. H., Dec. 1, 1918-March 1, 1920*; private practice, Douglas, Wyo.; *Second Asst. Supt., P. B. B. H., Jan.-May, 1921*; *First Asst. Supt., ibid., May 1, 1921-Feb. 1, 1923*; Sec., Courses for Graduates, Harv.; in practice, Boston.

PARSONS, ROBERT J.

A.B., Syracuse, 1928; M.D., *ibid.*, 1931; *Med. H. O., P. B. B. H., June 15, 1931-October 30, 1932*; Research Fellow in Med., Harv., November 1, 1932-July 31, 1933; Pathol. Interne, N. Y. Hosp., 1933-34; Asst. in Pathol., Cornell Univ. Med. Coll.

PATTERSON, HOWARD A.

M.D., Harv., 1925; Interne, Roosevelt Hosp., New York, 1925-27; House Gynecologist, *ibid.*, 1927-28; *Asst. Res. Surg., P. B. B. H., Feb. 1-Sept. 1, 1928*; Asst. Surg. to Out-Patients, Roosevelt Hosp., N. Y.; Asst. Attend. Surg., *ibid.*

PEABODY, FRANCIS WELD

A.B., Harv., 1903; M.D., *ibid.*, 1907; House Pupil, M. G. H., 1907-08; Asst. Res. Phys., J. H. H., 1908-09; Fellow in Pathol., Johns Hopkins, 1909-10; Stud. of Chem., Univ. of Berlin, Germany, 1910; Asst. Res. Phys., Hosp. of Rockefeller Inst., 1911-12; Asst., Rockefeller Inst., 1911-12; *Res. Phys., P. B. B. H., Nov. 1, 1912-Sept. 1, 1915 (granted leave of absence March 1, 1914-Jan. 1, 1915, to serve as a member of the China Medical Commission of the Rockefeller Foundation)*; *Asst. Visit. Phys., P. B. B. H., Sept. 1-Dec. 9, 1915*; Alumni Asst. in Med., Harv., 1913-15; Asst. Prof. of Med., *ibid.*, 1915-19; Consult. Phys., Collis P. Huntington Mem. Hosp., Boston; *Phys., P. B. B. H., Dec. 9, 1915-Sept. 1921 (leave of absence Aug. 1, 1917-Feb. 1, 1918, to serve as a member of the American Red*

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Cross Comm. to Roumania); Major, M. C., U. S. Army, 1918-19; Assoc. Prof. of Med., Harv., 1920-21; Prof. of Med., *ibid.*; Visit. Phys., B. C. H.; Director, Thorndike Lab., *ibid.*; Member, China Medical Board, Rockefeller Foundation; Member, Board of Scientific Directors, Rockefeller Inst.; *Consult. Phys., P. B. B. H., 1921-27. Died Oct. 13, 1927.*

PECK, EUGENE CURTIS

A.B., Harv., 1916; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., July 1, 1919-July 1, 1920*; Instr. in Physiol. Chem., Tulane Univ., New Orleans, La.; Asst. in Pediatrics, Harv.; Prof. of Biochemistry and Physiol., St. John's Univ., Shanghai, China, 1922-25; H. O., Children's Med. Serv., M. G. H., 1925-26; Pediatrician, Lawrence and Mem. Assoc. Hosp., New London, Conn.; in practice, New London, Conn.

PENFIELD, WILDER GRAVES

Litt.B., Princeton, 1913; B.A., Oxford, 1916; M.A. and B.Sc., *ibid.*, 1920; M.D., Johns Hopkins, 1918; *Surg. H. O., P. B. B. H., Aug. 15, 1918-Sept. 20, 1919*; Beit Mem. Research Fellow, England; Assoc. Attend. Surg., Presbyterian Hosp., New York; Asst. Prof. of Surg., Columbia Univ.; Asst. Surg., Neurol. Inst. of New York; Attend. Neurol., Vanderbilt Clin.; Prof. Neurology and Neuro-Surgery, McGill Univ.; Surg. in charge Neurol. Surg., Royal Victoria Hosp.; *Consult. Neurol. Surg., Montreal Gen. Hosp.*; Director, Montreal Neurol. Inst.; in practice, Montreal.

PETTIT, ROSWELL TALMADGE

S.B., Univ. of Chicago, 1908; M.D., Rush Med. Coll., 1913; *Med. H. O., P. B. B. H., March 1, 1914-July 1, 1915*; Capt., M. C., U. S. Army; in practice, Ottawa, Illinois.

PICKWICK, ERSKINE R.

M.D., Tufts, 1924; Interne, Newton Hosp., 1924-25; Asst. Surg., Hood Rubber Co. (Hosp.), Watertown, Mass., 1925-27; Asst. Res. (Exec.) Worcester City Hosp., 1927-29; *H. O. Roent., P. B. B. H., July 1, 1929-July 1, 1930*; *Asst. Res. in Roent., ibid., July 1, 1930-July 1, 1931*; Asst. Visit. Roent., Pondville Hosp., 1932; Asst. Visit. Roent., Burbank Hosp., Fitchburg; in practice (Roentgenology), Fitchburg, Mass.

PILCHER, COBB

M.D., Vanderbilt Univ., 1927; *Surg. H. O., P. B. B. H., July 1, 1927-Nov. 1, 1928*; Asst. Res. Phys., Vanderbilt Univ. Hosp., Nashville, Tenn., 1928-29; Asst. Res. Surg., *ibid.*, July, 1929-Jan., 1931; Res. Surg., *ibid.*, 1931-32; Instr. in Surg., *ibid.* (on leave of absence); Special Student, Dept. of Neuro-Surg., Univ. of Chicago, Feb.-May, 1932; Fellow in Neuro-Surg., Washington Univ. School of Med., St. Louis, Mo.

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PINKERTON, HENRY

S.B., M. I. T., 1918; M.D., Harv., 1924; *Pathol. H. O., P. B. B. H.*, July 1, 1924-July 1, 1925; Res. Pathol., Children's Hosp., Boston, July, 1925-July, 1926; *Res. Pathol., P. B. B. H.*, Sept. 1, 1926-Sept. 1, 1927; Instr. in Pathol., Harv.

POKORNY, NORMAN A.

A.B., Marquette Univ., 1925; M.D., Johns Hopkins, 1929; *Med. H. O., P. B. B. H.*, March 1, 1930-July 1, 1931; Babies' Hosp., New York City, 1931-32; Med. Res., Infants' and Children's Hosp., 1932-33; in practice, Springfield, Massachusetts.

POTTER, WILLIAM HENRY

A.B., Harv., 1878; D.M.D., *ibid.*, 1885; A.M., Hon., *ibid.*, 1927; Demonstr. in Operative Dentistry, Harv., 1887-88; Clin. Lecturer, *ibid.*, 1890-96; Lecturer, *ibid.*, 1896-1900; Asst. Prof., *ibid.*, 1900-04; Prof., Operative Dentistry, *ibid.*, 1904-1927; Prof. Emeritus, *ibid.*, 1927; Dental Surgeon, "Ambulance American Hospital" at Neuilly, France, 1914-15; 1st Lieut., Major, and Lieut. Col., Dental Corps, U. S. A., 1917-19, A. E. F.; Member, U. S. A. Base Hosp. No. 5, A. E. F.; Instr., Dental Dept., U. S. A. Sanitary School, Langres, 1918-19; *Consulting Dental Surg., P. B. B. H.* Died July 27, 1928.

POTTS, JR., WILLIAM HENRY

A.B., Univ. of Texas, 1922; M.D., Harv., 1926; *Med. H. O., P. B. B. H.*, March 1, 1926-July 1, 1927; Asst. Clin. Med., Baylor Univ., 1927-29; Instr. Clin. Med., *ibid.*; in practice, Dallas, Texas.

POWERS, JOHN HOWARD

A.B., Bates, 1919; B.A., Oxon, 1923; M.D., Harv., 1925; Surg. H. O., Lakeside Hosp., Cleveland, Ohio, 1925-26; *Asst. Res. Surg., P. B. B. H.*, Oct. 15, 1926-Sept. 15, 1927; Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv.; *Assoc. in Surg., P. B. B. H.*, Sept., 1927-Oct., 1928; *Res. Surg., ibid.*, Oct. 15, 1928-July 1, 1930; Assoc. Surg., Mary Imogene Bassett Hosp., Cooperstown, New York.

PRICE, JAMES VALENTINE

A.B., Univ. of N. C., 1915; M.D., Johns Hopkins, 1919; *Surg. H. O., P. B. B. H.*, Oct 15, 1919-March 1, 1921; Guggenheim Bros., La Paz, Bolivia, S. A.

PUTNAM, TRACY JACKSON

A.B., Harv., 1915; M.D., *ibid.*, 1920; Asst. Res. Pathol., J. H. H., 1920-21; *Asst. Res. Surg., P. B. B. H.*, Nov. 1, 1923-Oct. 1, 1924; Moseley Traveling Fellow, Harv., 1925; Arthur Tracy Cabot Fellow, *ibid.*, 1925-26; *Assoc. in Surg., P. B. B. H.*, 1925-28; Instr. in Neuropathol., Harv.; Asst. Prof. Neurol. Surg., *ibid.*; Asst. Visit. Phys. in Neurol. and Asst. Visit. Surg. for Neuro-Surg., B. C. H.; Asst. Visit. Surg., Neuro-Surg., M. G. H.

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QUINLAND, WILLIAM SAMUEL

B.S., M.D., Rosenwald Fellow in Pathol., Harv., Sept., 1919-April, 1921; *Asst. in Pathol., P. B. B. H., April 14, 1921-July 28, 1922*; Pathol., G. W. Hubbard and M. E. Hale Hospitals and Prof. of Pathol., Meharry Med. Coll., Nashville, Tennessee; Assoc. Med. Director, Geo. W. Hubbard Hosp., Nashville, Tenn.

RAGSDALE, LUNEY VARNON

A.B., Univ. of Ala., 1917; M.D., Harv., 1924; *Second Asst. Supt., P. B. B. H., June 1-Dec. 15, 1924*; *Med. H. O., ibid., Dec. 15, 1924-March 1, 1926*; Clin. Instr. in Med., Univ. of Alabama; Asst. Clin. Prof. Med., *ibid.*, 1931; Associate, American College of Physicians, 1930; Asst. Director, M. G. H.

RAND, CARL WHEELER

A.B., Williams, 1908; A.M., *ibid.*, 1909; M.D., Johns Hopkins, 1912; Res. H. O., J. H. H., 1912-13; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1913-Nov. 1, 1914*; House Surg., Mercy Hosp., Chicago, Ill., 1914-15; Lieut., M. C., U. S. Army; Clin. Prof. Surg., (Neurological) Univ. of California; in practice, Los Angeles, Calif.

RAPPORT, DAVID

A.B., Harv., 1912; M.D., *ibid.*, 1916; Moseley Travelling Fellow, Harv., 1916-17; *Med. H. O., P. B. B. H., March 1-June 17, 1917*; Lieut., M. C., U. S. Army, 1917-19; Austin Teaching Fellow in Physiol., Harv., 1919-20; Instr. in Physiol., *ibid.*; Research Fellow in Physiology, Cornell Univ. Med. Coll., 1921-24; Sr. Instr. in Physiol., Western Reserve Univ. Med. Sch., 1924-26; Asst. Prof. Physiol., *ibid.*, 1926-29; Prof. Physiol., Tufts Med. School.

RAWLINGS, J. MOTT

B.S., Princeton, 1921; M.D., Johns Hopkins, 1925; Interne, *ibid.*, 1925-26; Instr. in Pathol., *ibid.*, 1926-27; H. O. Med. Serv., Baltimore City Hosp., 1927-28; *Pathol. H. O., P. B. B. H., July 1, 1928-July 1, 1929*.

RAY, BRONSON SANDS

B.S., Franklin College, 1924; M.D., Northwestern, 1928; Interne, Passavant Memorial Hospital, Chicago, Ill., and Wesley Memorial Hosp., Chicago, Ill., 1928-29; *Surg. H. O., P. B. B. H., Jan. 1, 1930-May 1, 1931*; *Asst. Res. Surg., ibid., June 1, 1931-September 1, 1932*; Asst. Res. Surg., N. Y. Hosp.

READ, JAMES S.

B.A., Vanderbilt Univ., 1921; M.D., *ibid.*, 1924; Interne, Louisville City Hosp., 1924-26; *Asst. Res. Phys., P. B. B. H., July 1, 1926-July 1, 1927*; in practice, Nashville, Tenn.

REIFENSTEIN, BENEDICT W.

B.S., Syracuse, 1920; M.D., *ibid.*, 1922; Pathol. H. O., Hosp. of the Good Shepherd, Syracuse, N. Y.; *Pathol. H. O., P. B. B. H., July 1, 1922-July 1, 1923*; Med. H. O., New Haven Hosp., 1923-24; Asst.

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Phys., Syracuse Univ. Hosp. of the Good Shepherd; Inst. in Med., Syracuse Univ. College of Med.; in practice, Syracuse, New York.

RENNIE, THOMAS A. C.

B.S., Univ. of Pittsburgh, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., November 1, 1928-March 1, 1930*; Med. Res., Simpson Mem. Hosp., 1930; Psych. H. O., Phipps Clin., J. H. H., 1931; Asst. Res., *ibid.*, 1932; Res. Psych., *ibid.*

REYNOLDS, LAWRENCE

A.B., Univ. of Ala., 1912; M.D., Johns Hopkins, 1916; Capt., M. C., U. S. Army, 1917-19; *Roentgenologist, P. B. B. H., Oct. 15, 1919-June 1, 1922*; Roentgenologist, Children's Hosp., Boston, 1922; Roentgenologist, Children's Free Hosp., Detroit, Mich.; Asst. Roentgenologist, Harper Hosp., Detroit; Editor, Am. Journal of Roent.; in practice, Detroit, Mich.

RHEA, LAWRENCE JOSEPH

B.S., Univ. of Texas, 1901; M.D., Johns Hopkins, 1905; F.R.C.P.; H. O. in Pathol., B. C. H., 1906-07; Second Asst. in Pathol., *ibid.*, 1907; First Asst. in Pathol., *ibid.*, 1907-08; Asst. Visit. Pathol., *ibid.*, 1908-09; Asst. in Pathol., Harv., 1908-09; Instr. in Pathol., *ibid.*, 1909-10; Asst. Pathol., B. C. H., 1909-10; Director of Pathol. Lab. and Pathol., Montreal Gen. Hosp., 1910-12; Lect. in Pathol., McGill Univ., 1910-11; Asst. Prof. of Pathol., *ibid.*, 1911-12; *Res. Pathol., P. B. B. H., July 1, 1912-Oct. 1, 1913*; Asst. Prof. of Pathol., Harv., 1912-13; Assoc. Prof. of Pathol., McGill Univ.; Major, Canadian Army Med. Corps; Pathol., Children's Memorial Hosp., Montreal; Pathol., Babies' and Foundlings' Hosp., Montreal; Director, Pathol. Lab., Montreal Div. of Shriner's Hosp.; Director of Pathol. Lab., Montreal General Hosp.

RHOADS, CORNELIUS PACKARD

A.B., Bowdoin, 1920; M.D., Harv., 1924; *Surg. H. O., P. B. B. H., July, 1924-May 18, 1925*; Assoc. in Pathol., Boston City Hosp., 1926-27; Instr. in Pathol., Harv., 1927-28; Assoc., Rockefeller Inst. for Med. Research.

RICHARDS, LYMAN G.

A.B., Harv., 1916; M.D., *ibid.*, 1919; in Smyrna with Near East Relief, 1919; Surg. H. O., St. Luke's Hosp., New York, 1920-22; Mass. Eye and Ear Infirmary, Ear, Nose and Throat Serv., 1922-24; Chief in Otolaryngology, Children's Hosp., Boston; Assoc. in Otolaryngology, New England Deaconess Hosp.; Consultant in Bronchoscopy, Union Hosp., Fall River; Permanent Staff, Baptist Hosp., Boston; *Assoc. in Otolaryngology, P. B. B. H., June 12, 1924-Oct. 9, 1930*; *Consultant in Otolaryngology, ibid., 1930-32.*

RICHARDSON, HENRY BARBER

A.B., Harv., 1910; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., March 1, 1915-July 1, 1916*; Asst. in Med., Johns Hopkins; Asst. Disp. Phys., J. H. H.; First Lieut., M. C., U. S. Army, 1918-19;

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Instr. in Med., Columbia Univ., New York, and Asst. Adjunct Visit. Phys., Bellevue Hosp., New York, 1921; Instr. in Med., Cornell, and Research Fellow, Russell-Sage Inst. of Pathol., Bellevue Hosp., New York City, 1923; Visit. Phys., Bellevue Hosp., 1928; Assoc. Prof. of Med., Cornell Univ. Med. Coll., New York City, 1931; Attend. Phys., New York Hosp.

RIDDLE, MATTHEW C.

B.A., Reed College, 1917; M.A., Univ. of Oregon, 1922; M.D., Harv., 1926; Huntington Mem. Hosp., March-June, 1926; *Med. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928*; Res. Interne and Jr. Research Asst., Simpson Mem. Inst. for Med. Research; Fellow in Med., National Research Council; Clin. Instr. in Med., Univ. of Oregon Med. Sch., 1930-32; Clin. Assoc. in Med., *ibid.*; in practice, Portland, Ore.

RINGER, MICHAEL

B.S., Coll. of City of New York, 1915; M.D., Cornell, 1919; Instr. in Exper. Med., Yale, 1919-21; Instr. in Physiol., Cornell, 1921-23; *Med. H. O., P. B. B. H., Nov. 1, 1923-Jan. 1, 1925*; in practice, New York.

RIOCH, DAVID M.

B.A., Butler Coll., Indianapolis, 1920; M.D., Johns Hopkins, 1924; *Surg. H. O., P. B. B. H., Nov. 1, 1924-March 1, 1926*; *Asst. Res. Surg., ibid., March-April, 1926*; Asst. Med. Res., Strong Mem. Hosp., Rochester, N. Y., April 1, 1926-July 1, 1927; Instr. in Med., Univ. of Rochester Sch. of Med., July 1, 1927-Sept. 15, 1928; Nat. Research Council Med. Fellow, Sept. 15, 1928-Sept. 15, 1930; Assoc. in Physiol., Johns Hopkins Med. Sch., 1930-31; Asst. Prof. Anat., Harv.

ROONEY, JAMES STEWART

Univ. of Calif., 1917-21; M.D., Harv., 1926; *Pathol. H. O., P. B. B. H., Jan. 1-Oct. 1, 1926*; Res. Pathol., Long Island Hosp., Oct. 1, 1926-June 1, 1927; Res. Phys., *ibid.*, 1927-28; Instr. in Pathol., Harv.; Pathol., Charles Choate Mem. Hosp., Woburn, Faulkner Hosp., Boston, Industrial Accident Board, Commonwealth of Mass., Lynn Hosp., Lynn, Malden Hosp., Malden, Women's Hosp., Boston, Ducey Hosp. and Moore Hosp., Brockton, Norwood Hosp., Norwood, Peterborough Hosp., Peterborough, N. H., Symmes Arlington Hosp., Arlington, Weymouth Hosp., Weymouth, Whidden Mem. Hosp., Everett, Community Mem. Hosp., Ayer; Winchester Hosp., Winchester, and Winthrop Comm. Hosp., Winthrop.

ROOT, HOWARD FRANK

A.B., Harv., 1913; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., Feb. 13, 1919-Jan. 1, 1920*; Clin. Lab., J. H. H., 1920; Phys., N. E. Deaconess Hosp.; *Assoc. in Med., P. B. B. H., April 13, 1922-Dec. 31, 1930*; in practice, Boston, Mass.

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ROSS, J. PATERSON

M.B., M.S., London; F.R.C.S., England; St. Bartholomew's Hosp., England; *Jr. Assoc. in Surg., P. B. B. H., April 9, 1923-Sept. 14, 1923.*

RUBLEE, C. D.

M.D., Univ. of Vt., 1922; in practice, 1922-28; *Roent. H. O., P. B. B. H., Nov. 1, 1928-Feb. 1, 1929*; in practice, Newport, Vt.

SAEGER, ERNEST TIRRILL

B.S., Dart., 1914; M.D., Harv., 1917; *Surg. H. O., P. B. B. H., July 1, 1917-Aug. 1, 1918*; Res., First Surg. Division, Bellevue Hosp., New York; in practice, Boston.

SAGEBIEL, JAMES LAMBERT

B.S., Denison Univ., 1924; M.D., Harv., 1927; *Surg. H. O., P. B. B. H., Oct. 1, 1927-Feb. 1, 1929*; H. O., Boston Lying-In Hosp., Mar. 1, 1929- Sept. 15, 1929; Jr. Assoc. in Neurol., Miami Valley Hosp.; Asst. Med. Director, Orchard Springs San.; in practice, Dayton, Ohio.

SALLEY, S. MARION

B.S., Emory Univ., Atlanta, 1924; M.D., *ibid.*, 1928; Interne, Grady Hosp., July 1, 1928-July 1, 1929; *Asst. Res. Phys., P. B. B. H. Aug. 1, 1929-July 1, 1931.*

SCARFF, JOHN E.

B.S., Princeton, 1920; M.D., Johns Hopkins, 1924; experimental lab. work, *ibid.*, 1924-25; H. O., *ibid.*, 1925-27; *Surg. H. O., P. B. B. H., March 1, 1927-July 1, 1928*; *Asst. Res. Surg., ibid., July 1, 1928-July 1, 1930*; *Res. Surg., ibid., July 1, 1930-Oct. 1, 1930*; Jr. Attend. Neuro-Surg., Bellevue Hosp., N. Y.; Instr., Neuro-Surg., N. Y. Post-Graduate Med. Sch. and Hosp.; in practice, (Neuro-Surgery) N. Y.

SCHLESINGER, MONROE J.

B.S., Coll. City of New York, 1912; Ph.D., Harv., 1920; M.D., *ibid.*, 1926; Asst., N. Y. H. D. Research Lab., 1912-14; Asst. Bacteriol., West Penn. Hosp., Pittsburgh, 1914-17; Asst. in Preventive Med. and Hygiene, *ibid.*, 1917-20; Instr., *ibid.*, 1920-22; Asst. in Pathol., *ibid.*, 1922-23; Research Asst. in Pathol., *ibid.*, 1923-25; *H. O. Pathol., P. B. B. H., July 1, 1925-July 1, 1926*; Res. Pathol., Children's Hosp., Boston, 1926-27; Instr. in Pathol., Harv.; Pathol., Beth Israel Hosp., Boston.

SCHMITZ, HENRY L.

B.S., Univ. of Chicago, 1920; M.S., Univ. of Wis., 1922; Ph.D., Univ. of Wis., 1924; M.D., Harv., 1926; Med. H. O., Huntington Mem. Hosp., Boston, July, 1926-Dec., 1926; *Med. H. O., P. B. B. H. March 1, 1927-July 1, 1928*; Lasker Fellow and Instr., Dept. of Med. Univ. of Chicago, 1928-30; Asst. Prof. of Med., *ibid.*

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SCHNECK, ROBERT J.

M.D., Harv., 1925; Interne, St. Luke's Hosp., Chicago, 1925-26; *Med. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927; Asst. Res. Phys., ibid., 1927-28; Instr. in Med., Detroit Coll. of Med.; Jr. Assoc. in Med., Detroit Receiving Hosp.; Assoc. Phys., O. P. D., Harper Hosp., Detroit; in practice, Detroit, Mich.*

SCHOLEFIELD, BERNARD GRAHAM

B.A., Oxford, 1921; M.A., B.M., B.Ch., *ibid.*, 1923; M.D., Oxford, 1927; F.R.C.S., England, 1928; M.Ch., Oxon, 1931; Stud., St. Peter's College, Westminster, London, 1912-17; 2nd Lieut., Royal Engineers, 1917-19; Student, Guy's Hosp., London, 1922-23; House Surgeon, *ibid.*, 1924-25; Commonwealth Fund Fellow, Johns Hopkins Univ., 1925-26; *Asst. Res. Surg., P. B. B. H., Aug. 1, 1926-July 10, 1927; Surg. Registrar, Guy's Hosp., London, England, 1928-32; Honorary Surg., Herefordshire Gen. Hosp.*

SCHREIBER, FREDERIC

A.B., Univ. of Mich., Ex. 1918; Ensign, U. S. N., 1918-19; M.D., Harv., 1923; Interne, Harper Hosp., 1923-25; Asst. to Dr. Max Ballin, 1925-28; Assist. in Surg., O. P. D., Harper Hosp., 1926; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1928-Aug. 1, 1929; Neuro-Surg., Harper Hosp., Receiving Hosp., Children's Hosp. of Mich; Consult. Neuro-Surg., Deaconess Hosp., Sigma Gamma Clin., North End Clin., Woman's Hosp., Herman Kiefer Hosp., Detroit; Prof. Brain and Nerve Surg., Detroit Coll. of Med. and Surg.; in practice, Detroit, Mich.*

SCHULZ, REUBEN Z.

A.B., Central Wesleyan Coll., Warrenton, Missouri, 1921; M.A., Univ. of Nebraska, 1926; M.D., *ibid.*, 1927; Fellow and Asst., Dept. of Anat., *ibid.*, 1924-25; Asst. in Bact. and Immunology, *ibid.*, 1925-26; *Pathol. H. O., P. B. B. H., July 1, 1927-July 1, 1928; Res. Pathol., Children's Hosp., 1928-29; Res. Pathol., P. B. B. H., Sept. 1, 1929-Sept. 1, 1931; Instr., Dept. Pathol., Harv.*

SCHUMACHER, IRWIN C.

A.B., Univ. of Cal., 1915; M.D., Johns Hopkins, 1919; *Asst. Res. Phys., P. B. B. H., Oct. 1, 1920-Sept. 1, 1921; Asst. Prof. Med., Univ. of Cal.; in charge, Clin. Pathol. Dept., and Allergy Clin., Director of Clin. Labs., and Visit. Phys., Univ. of Cal. Hosp.*

SCHWARTZ, CHARLES WADSWORTH

Ph.B., Yale, 1914; M.D., Harv., 1919; *H. O., X-ray Dept., P. B. B. H., February 20, 1919-February 20, 1920; Director, X-ray Dept., Neurol. Inst. of New York; in practice, New York City.*

SCOTT, W. J. MERLE

A.B., Oberlin, 1914; M.D., Johns Hopkins, 1918; A.M., Columbia Univ., 1922; First Lieut., M. C., U. S. Army, 1918-19; Asst. in Surg., Henry Ford Hosp., Detroit, Mich., 1918-21; Fellow in Exper.

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Pathol., Montefiore Hosp., 1921-22; Arthur Tracy Cabot Fellow, Harv., 1922-23; Asst. in Surg., *ibid.*, 1923; *Assoc. in Surg.*, *P. B. B. H.*, Sept. 1, 1922-July 1, 1923; *Asst. Res. Surg.*, *ibid.*, July 1, 1923-July 1, 1924; Res. Surg., Lakeside Hosp., and Instr. in Surg., Western Reserve Univ., Cleveland, Ohio, 1924-26; Asst. Surg., Strong Mem. and Rochester Municipal Hosp., 1926-27; *Assoc. Surg.*, *ibid.*; Asst. Prof. Surg., Univ. of Rochester, Rochester, N. Y., 1926-27; *Assoc. Prof. Surg.*, *ibid.*

SHAMBAUGH, JR., GEORGE E.

A.B., Amherst, 1924; M.D., Harv., 1928; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1928-Mar. 1, 1930.

SHELBURNE, SAMUEL A.

B.A., Rice Inst., Houston, Texas; M.D., Univ. of Pa., 1928; H. O., Univ. Hosp., Phil.; Lab. work, Shreveport Charity Hosp.; *Asst. Res. Phys.*, *P. B. B. H.*, July 1, 1929-July 1, 1930; Teach. Fellow in Med., Lakeside Hosp.; Instr. in Med., Baylor Med. Sch.; Visit. Phys., Parkland Hosp.

SHRADER, JOHN C.

B.S., Univ. of Iowa, 1920; M.D., *ibid.*, 1922; Med. Interne, Univ. Hosp., Iowa, 1922-23; Hosp. Chem., *ibid.*, 1923-24; *Asst. Res. Phys.*, *P. B. B. H.*, July, 1924-Aug., 1926; Chief Res., Emory Div., Grady Hospital, Atlanta, Georgia, 1926-27; in practice, Ft. Dodge, Iowa.

SIMON, HILDA AMANDA

M.D., Cooper, 1905; *Third Asst. Supt.*, *P. B. B. H.*, Oct. 5, 1917-March 1, 1919; Supt., Lynn Hosp., Lynn, Mass. (*resigned*); City Health Dept., Seattle, Wash. *Died June 7, 1929.*

SIMPSON, SUTHERLAND E. R.

A.B., Cornell, 1921; M.D., Harv., 1925; *Med. H. O.*, *P. B. B. H.*, March 1, 1926-Aug. 1, 1926.

SISSON, WARREN RICHARDS

A.B., Colgate, 1906; Stud. of Med., Freiburg, Germany (summer semester), 1910; Stud., Univ. of Munchen (winter semester), 1910-11; Stud., Univ. of Heidelberg (summer semester), 1911; M.D., Johns Hopkins, 1912; House Pupil, M. G. H., Children's Med. Ward, 1912-13; *Med. H. O.*, *P. B. B. H.*, March 1, 1913-March 1, 1914; *Res. Pathol.*, *ibid.*, March 1, 1914-April, 1915; Instr. in Pathol., Harv., 1914-15; H. O., B. C. H., So. Dept., summer of 1915; Sr. H. O., Boston Floating Hosp., 1915; Instr. in Pediatrics, Johns Hopkins, 1916; Instr. in Pediatrics, Harv.; Visit. Pediatricist, Boston Lying-In Hosp.; Asst. Phys., Children's Hosp.; in practice, Boston.

SMILLIE, WILSON GEORGE

A.B., Colorado, 1908; M.D., Harv., 1912; D.P.H., *ibid.*, 1916; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1912-March 1, 1914; *Asst. Res. Phys.*, *ibid.*, March 1-Sept. 1, 1914; Asst. Instr., Dept. of Preventive Med.,

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Harv., 1914-16; Research Fellow, Rockefeller Inst., New York City, 1916-17; International Health Board of Rockefeller Foundation, 1917; loaned by the board as Asst. Prof. Hygiene de Faculdade de Medicina, Sao Paulo, Brazil, 1918-20; Director, Institute Hygiene; Prof. of Hygiene, Faculdade de Medicina e cirurgia, Sao Paulo, Brazil, 1920-22; Director of Training Base, International Health Board, Andalusia, Ala., 1922-25; Asst. Director for U. S., International Health Board, New York; Prof., Public Health Adm., Harv. School of Public Health.

SMITH, BARNEY BARR

M.D., Jefferson, 1917; H. O., Jewish Hosp., Philadelphia, Pa., 1917-18; First Lieut., M. C., U. S. Army, 1918-19; Asst., X-ray Dept., Lincoln and Beth Israel Hosp., New York City, 1920; *H. O., X-ray Dept., P. B. B. H., April 15, 1920-April 21, 1921*; Assoc. Roent., City Hosp., Buffalo; Instr. in Radiology, Univ. Buffalo Med. Sch.; Roent., Marine Hosp., Buffalo; in practice, Buffalo, New York.

SMITH, JUDSON ARTHUR

A.B., Harv., 1915; M.D., *ibid.*, 1918; *Med. H. O., P. B. B. H., Feb. 14, 1918-Jan. 30, 1919*; Surg. Serv., New Haven Hosp.; *Asst. Res. Surg., P. B. B. H., June 15, 1921-July 1, 1922*; H. O., Boston Lying-In Hosp., 1922-23; Res. Obstetrician, *ibid.*, 1923-24; in practice, Boston.

SMITH, W. CARTER

B.S., Emory Univ., 1924; M.D., *ibid.*, 1926; Interne, Grady Hosp., Atlanta, Ga., 1926-27; Asst. Res. Phys., Vanderbilt Univ. Hosp., 1927-28; *Jr. Assoc. in Med., P. B. B. H., Sept. 1, 1928-Sept. 1, 1929*; Res. Phys., Grady Hosp. (Emory Univ.), 1929-30; in practice, Atlanta, Georgia.

SMITH-PETERSEN, MARIUS NYGAARD

B.S., Univ. of Wis., 1910; Univ. of Wis. Med. Sch., 1910-12; M.D., Harv., 1914; *Surg. H. O., P. B. B. H., July 1, 1914-Nov. 1, 1915*; Res. Surg., Harv. Unit, Am. Ambulance Hosp., Paris, France, April-July, 1918; House Pupil, M. G. H. (Orthopedic Serv.), 1916; Visit. Orthopedic Surg., M. G. H.; Chief, Orthopedic Serv., M. G. H.; Asst. Prof. Orthopedics, Harv.; in practice, Boston.

SOOY, DANIEL WARREN

M.D., Univ. of Cal., 1917; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1921-July 1, 1922*; Instr. in Surg., Univ. of Cal. Med. Sch.; in practice, San Francisco.

SPIES, THOMAS D.

M.D., Harv., 1927; *Pathol. H. O., P. B. B. H., Jan. 1, 1928-Jan. 1, 1929*; 1st Asst. in Pathol., B. C. H., 1929-30; Interne, Lakeside Hosp., 1930-31; Teach. Fellow in Med., Western Reserve Univ., 1931-33; Instr. in Med., *ibid.*

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SPILLMAN, RAMSAY

A.B., Cornell, 1914; M.D., *ibid.*, 1917; *Surg. H. O., P. B. B. H.*, July 1, 1917-March 1, 1918; Columbia Hosp., Washington, D. C., 1918-19; Asst. Roent., Manhattan Eye, Ear, and Throat Hosp.; in practice (Roentgenology), New York City.

SPURLING, ROY G.

A.B., Univ. of Mo., 1920; A.M., *ibid.*, 1923; M.D., Harv., 1923; *Surg. H. O., P. B. B. H.*, Nov. 1, 1923-March 1, 1925; *Asst. Res. Surg.*, *ibid.*, March 1-Sept. 1, 1925; Res. Surg., Louisville City Hosp., Louisville, Ky.; Instr. in Surg., Univ. of Louisville Sch. of Med.; Asst. Prof. Surg., *ibid.*

STATER, WAYNE J.

A.B., Univ. of Oregon, 1917; M.D., Harv., 1921; *Surg. H. O., P. B. B. H.*, March 1, 1922-July 1, 1923; in practice, Portland, Oregon.

STECHER, ROBERT M.

B.S., Dart., 1919; M.D., Harv., 1923; *Med. H. O., P. B. B. H.*, Nov. 1, 1924-Nov. 1, 1925; Research Asst. in Med., Cleveland City Hosp.; Asst. Visit. Phys. in General Med. and Phys. in Med. in the O. P. D., Cleveland City Hosp.; Desert San. of So. Arizona, Tucson, Ariz., (on leave Oct. 1, 1931-May 1, 1932, for Clin. Research).

STEEL, SELWYN

M.D., Yale, 1930; Grad. Asst. in Med., M. G. H., 1930-31; *Med. H. O., P. B. B. H.*, Mar. 1, 1931-July 1, 1932; Asst. in Med., Boston Disp.; in practice, Boston.

STELLAR, ROBERT W.

B.S., Occidental Coll., Cal., 1919; Univ. of Cal., 2 years; M.D., Harv., 1923; *Surg. H. O., P. B. B. H.*, Nov. 1, 1923-March 1, 1925; in practice (traumatic surgery), Wilmington, Calif.

STEVENS, FRANKLIN AUGUSTUS

B.S., Univ. of Iowa, 1913; M.D., *ibid.*, 1915; Res. Phys., Univ. Hosp., Iowa, 1915; Instr. in Med., Univ. of Iowa, 1916-17; *Asst. Res. Phys.*, *P. B. B. H.*, July 21, 1917-Jan. 1, 1918; M. C., U. S. Army, 1918-19; Coolidge Fellow in Med., Columbia Univ., New York, 1919-20; Instr. in Med., *ibid.*; in practice, New York City.

STEVENS, WILLIAM B.

M.D., Harv., 1924; Asst. Res., Thorndike Lab., B. C. H., 1924-25; Interne, 4th Med. Service, *ibid.*, 1925-26; *Asst. Res. Phys.*, *P. B. B. H.*, Dec. 1, 1926-Aug. 22, 1927; Jr. Visit. Phys., B. C. H.; Member, Assoc. Staff, Faulkner, N. E. Deaconess, Robert B. Brigham Hosp., Boston; Asst. in Med., Harv.; in practice, Boston.

STEWART, STEELE FULLER

B.S., Westminster, Pa., 1912; M.D., Univ. of Pa., 1918; *Surg. H. O., P. B. B. H.*, June 1, 1918-July 1, 1919; Orthopedic Service, Children's Hosp., Boston, 1920; Orthopedic Service, M. G. H., 1921-22; Assoc. Orthopedic Surg., Children's Hosp., Los Angeles, 1922; Asst.

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Orthopedic Surg., *ibid.*; Jr. Orthopedic Surg., Los Angeles Gen. Hosp.; Orthopedic Surg., San Bernardino County Welfare Commission; Orthopedic Consultant, Nat. Home for Disabled Volunteer Soldiers, Sawtelle, Calif.; Asst. Prof. Surg. (Orthopedics), Univ. of So. California; in practice, Los Angeles, Calif.

STIMSON, HORACE POTTLE

A.B., Amherst, 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., March 1, 1923-July 1, 1924; Asst. Res. Surg., ibid., Sept. 8-Dec. 12, 1924*; Phys. of Fogg Museum Archæological Expedition to Mongolia, 1925; in practice, Miami, Florida, 1926-28; Assoc. in Traumatic Surg., Clin. of Drs. Forrester, Stimson and Mason.

STODDARD, JAMES LEAVITT

A.B., Harv., 1910; M.D., *ibid.*, 1914; *Pathol. H. O., P. B. B. H., July 1, 1914-July 1, 1915; Act. Res. Pathol., ibid., July 1-Sept. 1, 1915*; Research Fellow in Pathol., Harv.; Major, M. C., U. S. Army, 1917-19; Lect. in Biochemistry, Smith Coll., 1920-21; Asst. Prof. Biochemistry, Smith Coll., 1921-22; Chemist, M. G. H.; Asst. in Med., Harv.

STONE, ERIC PERCY

B.S., Harv., 1914, as of 1915; M.D., *ibid.*, 1918; *Surg. H. O., P. B. B. H., May 15, 1918-July 1, 1919; Asst. Res. Surg., ibid., Oct. 1, 1919-June 15, 1920*; Surg. in Charge, Urol. Serv., Charles V. Chapin Hosp.; Asst. Surg., Gynæcological Serv., R. I. Hosp.; Consult. Urol., Prov. Lying-In Hosp., Memorial Hosp., Pawtucket, and South County Hosp., Wakefield, R. I.; in practice, Providence, R. I.

STONE, GEORGE HENRY

A.B., Bowdoin, 1905; M.D., *ibid.*, 1908; H. O., Maine Gen. Hosp., 1908-09; in practice, Clinton, Mass., 1909-11; H. O., B. C. H., 1912-13; Exec. Asst., *ibid.*, 1913-15; *Third Asst. Supt., P. B. B. H., Feb. 1, 1915-May 1, 1917; Second Asst. Supt., ibid., May 1, 1917-July 1, 1919*; Capt., M. C., U. S. Army, 1918-19; Major, Med. Sec., Officers' Reserve Corps, U. S. Army; *First Asst. Supt., P. B. B. H., July 1, 1919-May 1, 1921; Supt., Eastern Maine Gen. Hosp., Bangor, Maine, June, 1921-Feb., 1930; Supt., The Memorial Hosp., Worcester, Mass.*

STRAYER, LUTHER M.

A.B., Princeton, 1926; M.D., Harv., 1930; *Surg. H. O., P. B. B. H., July 1, 1930-Nov. 1, 1931*; Jr. Fellow in Surg., Presbyterian Hosp., New York City, December, 1931-June, 1932; Res. on Fracture Serv., *ibid.*, 1932-33; in practice, Stratford, Connecticut.

STRAYHORN, JR., WILLIAM DAVID

B.A., Vanderbilt, 1925; M.D., *ibid.*, 1928; *Med. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929*; Asst. in Med., Vanderbilt Hosp., Nov. 1, 1929-July 1, 1930; Asst. Res. Phys., *ibid.*, 1930-31; Res. Phys., *ibid.*, 1931-32; Res. Phys., N. Y. Hosp. and Cornell Univ. Med. Coll.

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STURGIS, CYRUS CRESSEY

B.S., Univ. of Wash., 1913; M.D., Johns Hopkins, 1917; *Med. H. O., P. B. B. H.*, Oct. 15, 1917-Aug. 22, 1918; 1st Lieut., M. C., U. S. Army, 1918-19; *Asst. Res. Phys., P. B. B. H.*, Aug. 25, 1919-April 15, 1920; *Res. Phys., ibid.*, April 15, 1920-Aug. 1, 1922; *Assoc. in Med., ibid.*, Aug. 1, 1922-Sept. 1, 1925; Fac. Instr. in Med., Harv., Sept. 1, 1922-Sept. 1, 1925; Asst. Prof. Med., *ibid.*, Sept. 1, 1925; Assoc. Phys., C. P. Huntington Hosp., Sept. 1, 1925-Jan. 1, 1926; *Physician, P. B. B. H.*, Sept. 1, 1925-July 1, 1927; Director, Thos. Henry Simpson Mem. Inst. for Med. Research; Prof. Int. Med., Univ. of Mich. Sch. of Med.; Director, Dept. of Int. Med., Univ. Hosp.

TAFT, ANNIE E.

M.D., Tufts, 1907; *Res. Pathol., P. B. B. H.*, Nov. 5, 1917-Jan. 31, 1918; *Res. Phys.*, Pa. Hosp. Mental and Nervous Diseases, 1918-20; Special Research Asst., Boston Psychopathic Hosp., 1920-21; *Neuro-Pathol.*, Pa. Hospital Mental Diseases, and Neuropsychiatrist, Community Health Centre, Philadelphia, 1922-27; Laura Spelman Research Fellow, Dept. Industrial Medicine, Univ. of Pa., 1927-31.

TAFT, ROGER BROWNE

D.M.D., Harv., 1908; Asst. in Oral Surg., *ibid.*, 1910; Instr. in Oral Surg., *ibid.*, Feb. 1, 1919; *Dental Surg., P. B. B. H.*, Jan. 13, 1916-Feb. 13, 1919; Instr. in Operative Dent., Harv.; in practice (Dentistry), Boston.

TAYLOR, ARTHUR C.

B.A., Univ. of Wisconsin, 1921; M.A., *ibid.*, 1924; M.D., Harv., 1927; *Med. H. O., P. B. B. H.*, July 1, 1927-Nov. 1, 1928; *Pathol. H. O., ibid.*, Jan., 1929-Jan., 1930; Asst. Res. in Surg., Wis. Gen. Hosp., Jan., 1930-July, 1930; *Res. in Surg., ibid.*, 1930-31; Asst. in Surg., Univ. Clin., Basel, Switzerland, 1932; Instr. in Surg., Univ. of Wis.

TEEL, CHARLES E.

M.D., Washington Univ., 1923; Surg. Interne, New Haven Hosp., 1923-24; H. O., M. G. H., 1924-25; *Asst. Res. Surg., P. B. B. H.*, Nov. 1, 1925-June 22, 1926; Asst. in Genito-Urinary Surg., Harv., 1925-26; in practice, Bellingham, Washington.

TEEL, HAROLD M.

M.D., Harv., 1929; Arthur Tracy Cabot Fellow, Harv., Jan.-Sept., 1929; *Jr. Assoc. in Surg., P. B. B. H.*, July 1-Sept. 1, 1929; Asst. Res., Lakeside Hosp., 1929-31; H. O., Boston Lying-In Hosp.

TEFFT, JR., RICHARD C.

A.B., Yale, 1916; M.D., Harv., 1920; *Med. H. O., P. B. B. H.*, March 1, 1921-July 1, 1922; Assoc. Phys., Children's Med. Dept., M. G. H.; Consult. in Pediatrics, Mass. E. and E. Infirm.; Instr. in Pediatrics, Harv.; Consult. in Pediatrics, Robert Brigham Hosp.; in practice, Boston, Mass.

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TEMPLETON, EARL R.

B.S., Colgate Univ., 1914; M.D., Syracuse, 1920; *Pathol. H. O.*, *P. B. B. H.*, July 6, 1920-July 1, 1921; Med. H. O., New Haven Hosp., 1921-22; Res. in Med., Buffalo City Hosp., 1922; Clin. Asst. in Med., *ibid.*; Cardiologist, Mercy Hosp., Buffalo, N. Y.; Post-graduate study abroad, 1932; in practice, Washington, D. C.

THAXTER, LANGDON THOM

A.B., Williams, 1911; M.D., Harv., 1915; Med. House Pupil, M. G. H., 1915-16; *Surg. H. O.*, *P. B. B. H.*, Nov. 14, 1916-July, 1917; Res. Roent., M. G. H., 1926-27; Roentgenologist, Maine Gen. Hosp.

THOMPSON, CHARLES BAKER

A.B., Haverford, 1909; M.D., Johns Hopkins, 1913; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1913-Nov. 1, 1914; Second Asst. Res., Phipps Psychiatric Clin., J. H. H., 1914-15; First Asst. Res., *ibid.*, 1915-16; Psychiatrist and Executive Secretary, Mental Hygiene Soc. of Md., 1916-27; Editor, *Mental Health*, 1923-26; School Psychiatrist, Baltimore Public Schools, 1922-27; Attend. Phys., Vanderbilt Clin., Psychiatric Dept.; Instr. in Psychiatry, College of Phys. and Surgs., New York, 1927-29; Psychiatrist, Bellevue Hosp., New York; Instr. in Psychiatry, N. Y. Univ. and Bellevue Hosp. Med. Coll.; in practice, New York City.

THURMON, FRANCIS M.

B.S., Illinois Coll., 1922; M.D., Harv., 1926; Interne, Wesley Mem. Hosp., 1926-28; Fellow in Med., Harv., 1928-29; *Asst. Res. Phys.*, *P. B. B. H.*, June 15, 1929-Sept. 1, 1930; Phys.-in-chief, Clin. of Dermatology and Syphilis, Boston Disp.; Dermatologist, Boston Floating Hosp.; Asst. Prof. Dermatology, Tufts College Med. Sch.

TOLLMAN, JAMES PERRY

B.S., Univ. of Neb., 1927; M.D., *ibid.*, 1929; *Med. H. O.*, *P. B. B. H.*, July 1, 1929-Nov. 1, 1930; *Pathol. H. O.*, *ibid.*, Jan. 1, 1931-July 15, 1931; Asst. Prof. Pathol., Univ. of Nebraska.

TOWLERTON, FLETCHER JOHNSON

A.B., Harv., 1917; M.D., *ibid.*, 1921; H. O., Collis P. Huntington Mem. Hosp., 1919-20; *Surg. H. O.*, *P. B. B. H.*, July 1, 1921-Nov. 1, 1922; Visit. Surg., Lyons Hosp., Lyons, New York; in practice, Lyons, New York. Died October 8, 1933.

TOWNE, EDWARD BANCROFT

A.B., Harv., 1906 (1907); M.D., *ibid.*, 1913; *Surg. H. O.*, *P. B. B. H.*, July 1, 1913-Nov. 1, 1914; *Asst. Res. Surg.*, *ibid.*, Nov. 1, 1914-Nov. 1, 1915; Surg., Second Harv. Unit, B. E. F., France, 1915-16; Vol. Asst. in Exp. Bacteriol., Mayo Foundation, Rochester, Minn., 1916; Fellow *pro tempore*, Mayo Foundation, 1916-17; *Asst. Res. Surg.*, *P. B. B. H.*, Sept. 1, 1916-May 7, 1917; Major, M. C., U. S. Army, May, 1917-19; Assoc. Clin. Prof. of Surg., Leland Stanford Junior Univ., San Francisco; in practice, San Francisco, California.

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TRANTER, CHARLES LEE

B.S., Univ. of Cal., 1911; M.D., *ibid.*, 1913; Med. and Surg. H. O., Univ. of Cal. Hosp., 1913-14; Asst., Nerve O. P. D., *ibid.*, 1914-15; Asst. in Neurol., Univ. of Cal., 1915; *Asst. Res. Surg., P. B. B. H., Jan. 8, 1916-Jan. 1, 1917*; Asst. in Neurol., Univ. of Cal., 1917; Capt., M. C., U. S. Army; in practice, San Francisco, California.

TROPPOLI, DANIEL V.

A.B., A.M., Brown Univ., 1923;; M.D., Harv., 1927; Neurol. H. O., M. G. H., June, 1927-Jan., 1928; *Med. H. O., P. B. B. H., March 1, 1928-July 1, 1929*; Res. Phys., R. I. Hosp., Aug., 1929-Oct., 1930; *Surg. H. O., P. B. B. H., July 1, 1931-Nov. 1, 1932*; in practice, Providence, R. I.

TURNBULL, GEORGE CLARENCE

M.D., Northwestern Univ., 1922; H. O., Gen. Serv., Surg. and Obstetrics, Evanston Hosp., Evanston, Ill., 1922-23; Asst. in Pathol., Northwestern Univ., 1920-22; *Med. H. O., P. B. B. H., March 1, 1923-July 1, 1924*; Phys. (special), Yale, Dept. Univ. Health, New Haven, Conn., 1924-26; Clin. Asst., Dept. Int. Med., Yale Univ. Sch. of Med., 1924-26; Post-Grad. work in Medicine and Pathol., Vienna, Austria, 1926-27; Assoc. in Med., Northwestern Univ.; Assoc. Phys., Evanston Hosp. Med. Service; in practice, Evanston, Illinois.

TURNER, RALPH WALDO

M.D., Albany Med. School, 1917; *Surg. H. O., P. B. B. H., Dec. 23, 1917-May 2, 1918*; Lieut., M. C., U. S. Army. (*Deceased.*)

VAIL, HARRIS HOLMES

A.B., Yale, 1912; M.D., Harv., 1917; *Surg. H. O., P. B. B. H., March 1, 1916-May 3, 1917*; Lieut., M. C., U. S. Navy, 1917-19; H. O., Aural, Mass. Eye and Ear Infirm., 1920-21; in practice, Cincinnati, Ohio.

VAN AUKEN, HOWARD A.

A.B., Yankton Coll., 1925; M.D., Univ. of Mich., 1931; *Med. H. O., P. B. B. H., July 1, 1931-November 1, 1932*; Fellow in Med. Research, Harv., 1932-33; Clin. Asst., N. Y. Post-Grad. Hosp. and Med. Sch.

VANCE, ROBERT G.

Roent., Huntington Mem. Hosp., 1924-28; *Assoc. in Roent., P. B. B. H., 1928*; Asst. Visit. Phys., X-ray Dept., M. G. H.; Roent. to Winchester and Chelsea Mem. Hosp.; Assoc. Roent., Newton Hosp.

VAN GORDER, GEORGE WILSON

A.B., Williams, 1911; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., March 1, 1915-July 1, 1916*; Medical House Pupil, M. G. H., 1916-17; House Surg., Free Hosp. for Women, Brookline, 1917; Capt., M. C., U. S. Army, 1917-19; Associate Prof. Surg., Peiping Union Medical College, Peiping, China, 1920-29; Attend. Orth. Surg.,

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M. G. H.; Instr. in Orthopedic Surg., Harv.; in practice in Boston, Massachusetts.

VAN WAGENEN, WILLIAM P.

A.B., Cornell, 1918; M.D., Harv., 1922; Asst. Anat., Cornell, 1918-19; H. O., Memorial Hosp., N. Y., 1922; *Surg. H. O., P. B. B. H., 1922-24*; Res. Surg., Memorial Hosp., N. Y., 1924-25; *Asst. Res. Surg., P. B. B. H., 1926-27*; Res. Surg., Rochester Gen. Hosp., 1926-27; Asst. in Neurol., Harv. and B. C. H., 1927-28; Asst. Prof. Surg., Univ. of Rochester School of Med.; Assoc. Prof. Surg., *ibid.*

VASTINE, JACOB H.

M.D., Univ. of Pa., 1923; Interne, Easton Hosp., Easton, Pa., 1923-24; Gen. Practice, 1 year; *H. O., X-ray Dept., P. B. B. H., Aug. 1, 1925-Feb. 1, 1926*; *Asst. Res. in Roent., ibid., Feb. 1-June 15, 1926*; Clin. Prof. of Radiology, Woman's Med. Coll., Philadelphia; Roentgenologist, Hosp. of the Woman's Med. Coll.; in practice, Philadelphia, Pennsylvania.

VAUGHAN, WARREN TAYLOR

A.B., Univ. of Mich., 1913; M.D., *ibid.*, 1916; *Med. H. O., P. B. B. H., July 1, 1916-Nov. 7, 1917*; M. C., U. S. Army. Nov. 7, 1917-July 27, 1919; Asst. in Preventive Med. and Hygiene, Harv., 1919-20; Lt. Col., M. O. R. C., C. O. Genl. Hosp., 41; Secretary, Am. Assoc. for the Study of Allergy; Editor, *Journ. Lab. and Clin. Med.*; in practice, Richmond, Virginia.

VERMOOTEN, VINCENT

A.B., Univ. of Capetown, South Africa, 1918; A.M., *ibid.*, 1919; M.D., Johns Hopkins, 1923; Sr. Demonstr. in Anat., Univ. of Capetown, 1918-20; Res. H. O., Johns Hopkins, 1923-24; Asst. Res. Surg., New Haven Hosp., 1924-27; Asst. in Surg., Yale, 1924-27; Asst. in G. U. Surg., Harv.; *Asst. Res. Surg., P. B. B. H., 1927-28*; Instr. in Urol., Yale Univ., 1928-30; Asst. Prof. Urol., *ibid.*; Assoc. Surg., New Haven Hosp., 1930-33; Union of So. Africa.

VICKERS, DENVER M.

A.B., Colorado Coll., 1917; M.D., Harv., 1921; *Surg. H. O., P. B. B. H., July, 1921-Nov. 1, 1922*; Surg., Mary McClellan Hosp., Cambridge, New York; in practice, Cambridge, N. Y.

VIETS, HENRY ROUSE

B.S., Dart., 1912; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., March 1-Aug. 16, 1917*; Capt., M. C., U. S. Army, 1917-19; Asst. Neurol., M. G. H.; Asst. Visit. Neurol., Long Island Hosp., Boston; Instr. in Neurol., Harv.; in practice, Boston.

WAKEMAN, EDWARD T.

B.A., Yale, 1919; M.D., *ibid.*, 1922; *Med. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923*; in practice, New Haven, Connecticut.

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WALKER, CLIFFORD BLACK

S.B., Univ. of Cal., 1906; Stud., Univ. of Cal. Med. Sch., 1907-10; M.D., Johns Hopkins, 1911; M.D., *ibid.*, 1912; Asst. to Dr. Cushing, 1911-12; Sr. Ophthal. House Surg., Mass. Eye and Ear Infirm., Boston, 1913; Sr. Aural House Surg., *ibid.*, 1914; *Assoc. in Surg.*, *P. B. B. H.*, March 1, 1915-April 25, 1918; Asst. in Ophthal., Harv., 1916-18; Assoc. Staff, Good Samaritan Hosp. and Good Hope Clin.; Jr. Ophthalmic Surg., Co. Hosp., Los Angeles, Calif.; Assoc. Clin. Prof. Ophthalmology, College of Medical Evangelists; Assoc. Prof. in Ophthalmology (Surg.) Univ. of So. Calif.; in practice, Los Angeles, Calif.

WALKER, JR., GEORGE L.

B.S., Emory Univ., 1924; M.D., *ibid.*, 1926; H. O., Grady Hosp., 1926-27; House Phys., *ibid.*, 1927-28; *Asst. Res. Phys.*, *P. B. B. H.*, Sept. 1, 1928-Sept. 1, 1929; Res. Phys., Cornell Div., Bellevue Hosp., N. Y., 1929-31; in practice, Atlanta, Georgia.

WALKER, WILLIAM G.

M.D., Univ. of Iowa; 3 months Pathol. Dept., *ibid.*; 1 year Interne, Univ. of Iowa Hosp.; 1 year Clin. Asst., *ibid.*; 2½ months Clin. Microscopy, *ibid.*; *Jr. Assoc. in Med.*, *P. B. B. H.*, Sept. 25, 1922-July 1, 1924; Chief, Med. Serv., Brockton Hosp.; in practice, Brockton, Massachusetts.

WARREN, JR., WILLIAM CHESTER

B.S., Emory Univ.; M.D., *ibid.*; *Surg. H. O.*, *P. B. B. H.*, March 28, 1922-July 1, 1923; Asst. and House Surg., Manhattan Ear, Nose and Throat Hosp., New York, 1923-24; Grad. Stud., Vienna, Austria; Assoc. Instr., O. R. L. Serv., Emory Univ.; in practice, Atlanta, Georgia.

WATKINS, S. SHELTON

A.B., Center Coll. of Ky., 1908; A.M., *ibid.*, 1909; M.D., Johns Hopkins, 1914; Med. and Surg. H. O., Church Home and Infirm., Baltimore, 1914; *Third Asst. Supt.*, *P. B. B. H.*, May 1, 1914-Jan. 15, 1915; Asst. in Clin. Laryngology, Johns Hopkins; Asst. Disp. Laryngologist, J. H. H.; Asst. Res. Surg., *ibid.*; Mem. of Dr. L. F. Barker's Staff at 1035 No. Calvert St., Baltimore, Md.; Lieut., M. C., U. S. Navy, 1917-19; in practice, Louisville, Kentucky.

WEARN, JOSEPH TRELOAR

B.S., Davidson, 1913; M.D., Harv., 1917; *Med. H. O.*, *P. B. B. H.*, June 15, 1917-June 15, 1918; 1st Lieut., M. C., U. S. Army, 1917-19; *Asst. Res. Phys.*, *P. B. B. H.*, Sept. 1, 1919-Aug. 15, 1921; Instr. in Pharm., Univ. of Penn., 1921-23; Instr. in Med., Harv., 1923-24; Asst. Prof. of Med., *ibid.*; Asst. Phys., Thorndike Lab., B. C. H.; Jr. Visit. Phys., *ibid.*; Assoc. Prof. Med., Harv.; Assoc. Director, Thorndike Lab., B. C. H.; Visit. Phys., B. C. H., 1928-29; Prof. of Med., Western Reserve Univ., Cleveland, Ohio; Director of Med., Lakeside Hosp.

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WEGEFARTH, PAUL

A.B., Johns Hopkins, 1908; Stud. of Med., Strassburg and Berlin, Germany, 1909-11; M.D., Johns Hopkins, 1912; *Surg. H. O., P. B. B. H., Nov. 1, 1912-March 1, 1914*; Res. Phys., Church Home Infirmary, Baltimore, 1914-15; Phys., San Diego, Cal., 1914-17; commissioned 1st Lieut., M. C., Sept., 1917; commissioned Capt., M. C., May, 1918; in practice at San Diego, May, 1919, until December, 1921. *Died March 29, 1923.*

WEISMAN, PAUL GERHARDT

B.S., Univ. of Mich., 1911; M.D., *ibid.*, 1913; H. O., Providence City Hosp. (Contagious Wards), 1914; H. O., R. I. Hosp., 1914-16; *Asst. Res. Phys., P. B. B. H., April 1-Aug. 1, 1916*; Asst. Res., Union Prot. Infirm., Baltimore, 1917; Res., *ibid.*, 1917-18; Lieut., M. C., U. S. Army, 1918; in practice, Colfax, Washington.

WELBOURN, MARSHALL AGNEW

B.S., Univ. of Mich., 1913; M.D., *ibid.*, 1915; *Assoc. in Med., P. B. B. H., July 1, 1915-March 1, 1916*; *Med. H. O., ibid., March 1, 1916-July 1, 1917*; Capt., M. C., U. S. Army 1917-19; Instr. in Int. Med., Univ. of Mich., 1919-20; in charge of laboratories, Westlake Hosp., Los Angeles, Cal.; Med. Staff, Selwyn Emmet Graves Mem. Disp., Univ. of Calif.; Attend. Staff, California Lutheran Hosp.; in practice, Los Angeles, California.

WELLS, GUY

Ph.B., Brown Univ., 1916; M.D., Cornell, 1920; Interne, R. I. Hosp., 1920-22; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1922-March 1, 1924*; in practice, Providence, Rhode Island.

WELLS, WARD STANLEY

S.B., Grinnell, 1909; M.D., Harv., 1916; *Assoc. in Med., P. B. B. H., July 1, 1916-April 8, 1917*; *Med. H. O., ibid., April 8-July 18, 1917*; Major, M. C., U. S. Army, Letterman Gen. Hosp., Presidio of San Francisco, Calif.; Instr. in Clin. Electro-Cardiography, Army Med. Center, Washington, D. C. *Died Oct. 24, 1929, at Manila, P. I.*

WENTWORTH, JOHN ALEXANDER

A.B., Bowdoin, 1909; M.D., Harv., 1913; H. O., Hartford Hosp., Hartford, Conn., 1913-15; *Sr. Med. H. O., P. B. B. H., July 1-Nov. 1, 1915*; Alumni Asst., Clin. Pathol., Harv.; Asst., Harv. Infantile Paralysis Comm., Fall, 1916; *Asst. Res. Phys., P. B. B. H., Nov. 1, 1915-Aug. 1, 1917*; Assoc. Phys., Clifton Springs Sanitarium, New York, 1917-18; 1st Lieut., M. C., U. S. Army, 1918-19; Phys., Clifton Springs Sanitarium, New York, 1919-21; Asst. Phys., Hartford Hosp.; Consult., Windham Co. Hosp.; in practice, Hartford, Connecticut.

WEST, HOWARD FRANK

A.B., Stanford, 1912; M.D., *ibid.*, 1915; Interne, Lane Hosp., San Francisco, 1915-17; *Asst. Res. Phys., P. B. B. H., Sept. 15-Oct. 15, 1917*; *Act. Res. Phys., ibid., Oct. 15, 1917-Jan. 1, 1918*; Res. Phys.,

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ibid., Jan. 1, 1918-April 15, 1920; Alumni Asst. in Med., Harv., 1918-20; Assoc. Phys., Diabetic Serv., Children's Hosp., Los Angeles; Assoc. Med. Director, Los Angeles Metabolic Clin.; Staff, St. Vincent Hosp., Los Angeles; Attend. Staff, Hosp. of Good Samaritan; Staff, Cedars of Lebanon and Los Angeles Gen. Hosp.; Clin. Prof. Med., Univ. of So. Calif.; in practice, Los Angeles, Calif.

WHEELER, BANCROFT C.

A.B., Harv., 1920; M.D., *ibid.*, 1924; Surg. H. O., Mass. General Hosp., Sept., 1924-June, 1926; Urol. H. O., Roosevelt Hosp., Jan.-June, 1927; *Asst. Res. Surg.*, *P. B. B. H.*, 1927-28; Res. Surg., Mem. Hosp., Worcester, 1928-29; Asst. Visit. Surg., *ibid.*

WHEELER, DANIEL W.

S.B., Knox Coll., 1915; M.D., Rush Med. Coll., 1920; *Asst. Res. Surg.*, *P. B. B. H.*, June 1, 1921-March 1, 1922; Fellow in Pathol., Rush Med. Coll., 1920-21; Fellow, Trudeau Foundation, 1922; Asst. Res. Phys., Trudeau Sanatorium, 1923; Asst. Med. Director, Nopeming Sanatorium, Nopeming, Minn., 1924; in practice, Duluth, Minnesota.

WHITAKER, LESTER R.

M.D., Harv., 1923; Surg. H. O., New Haven Hosp., 1923-24; *Assoc. in Surg.*, *P. B. B. H.*, July 11, 1924-Sept. 1, 1925; Arthur Tracy Cabot Fellow, Harv., 1924-25; *Asst. Res. Surg.*, *P. B. B. H.*, Sept. 1, 1925-July 1, 1927; Nat. Research Council Fellow in Surg., Univ. of Rochester Sch. of Medicine and Dentistry, 1927-28; First Asst. Visit. Surg., Mass. Memorial Hosp.; Asst. in Surg., and Instr. in Anat., Boston Univ. Sch. of Med.; Assoc. Member, Evans Mem. for Clin. Research and Prev. Med.; in practice, Boston.

WHITING, WALTER BELKNAP

Two years pre-med. work, Wash. and Lee Univ., and Cornell Summer Sch.; M.D., Harv., 1923; *Med. H. O.*, *P. B. B. H.*, July 1, 1923-Nov. 1, 1924; *Asst. Res. Phys.*, *ibid.*, Nov. 1, 1924-July 1, 1925; Phys., Wichita Clin. Hosp.; in practice, Wichita Falls, Texas.

WHITNEY, RAYMOND CYRUS

B.S., Middlebury, 1914; M.D., Harv., 1918; *Surg. H. O.*, *P. B. B. H.*, Jan. 10-Oct. 28, 1918; American Relief Comm., Near East, Caesarea, Turkey-in-Asia, American Hosp.; H. O., Mass. Eye and Ear Infirm., 1920-22; Ophthalmologist, St. Luke's Hosp., New Bedford; in practice (Ophthalmology), New Bedford, Massachusetts.

WILENS, GUSTAV

Ph.B., Yale, 1920; M.D., *ibid.*, 1923; *Pathol. H. O.*, *P. B. B. H.*, July 1, 1923-July 1, 1924; Res. Pathol., Children's Hosp., Boston; Instr. in Pathol., Harv., 1924-25; H. O. in Pediatrics, Children's Hosp., Boston, 1926-27; Director of Laboratories, Truesdale Hosp., Fall River, Mass.; Asst. Pediatrician, *ibid.*, Jan.-Sept., 1927; Director of Montgomery Co. Laboratories (Julius Wasserman Mem.

REGISTER OF FORMER MEMBERS OF THE STAFF

and John Barnes Foundation), Montgomery Co., N. Y.; Pathol., City Hosp., St. Mary's Hosp., Amsterdam, N. Y.; Pathol. to Montgomery Co. Tbc. San.; Consultant Pediatrician, *ibid.*, 1930-31; in pediatric practice, Utica, New York.

WILMAERS, ALBERT

M.D., Univ. of Brussels, 1921; Interne, Hospitals of Brussels; 3 months as Asst. to Prof. Vaquez, Paris; worked under Dr. DeMoor and Dr. DeMeyer; Physiol. Inst., Univ. of Brussels; Fellow, C.R.B., Educational Foundation; *Act. Asst. Res. Phys., P. B. B. H., Sept. 15-Nov. 15, 1923*; Asst. in General Path., Univ. of Brussels, 1924-28; in practice, Brussels, Belgium.

WILSON, CHARLES P.

A.B., Reed Coll., Portland, Oregon, 1920; M.D., Johns Hopkins, 1924; *Med. H. O., P. B. B. H., March 1, 1925-July 1, 1926*; Asst. Res. Phys., Vanderbilt Univ., Nashville, Tenn., 1926-27; Res. Phys., *ibid.*, 1927-28; Clin. Assoc. in Med., Univ. of Oregon; in practice, Portland, Oregon.

WILSON, DAVID COLE

B.A., Univ. of Va., 1912; M.D., *ibid.*, 1919; Interne, Univ. of Va. Hosp., 1919; *Med. H. O., P. B. B. H., Dec. 15, 1919-March 1, 1921*; Phys., Clifton Springs San., Clifton Springs, New York; Assoc. Prof. Neuro-Psychiatry, Univ. of Virginia, Med. Dept.

WILSON, JAMES ROBERT

M.D., Syracuse Univ., 1921; Instr., *ibid.*; Asst. in Pathol., Harv.; Res. Pathol., Children's Hosp., Boston; Instr., Dept. Pathol., Harv.; *Res. Pathol., P. B. B. H., Sept. 15, 1923-July 1, 1924*; Assoc. in Pediatrics, Cornell Med. School, New York; Asst. Attend. Pediatricist, Out-Patient Dept., New York Nursery and Child's Hosp., New York; Pathologist, *ibid.*; Asst. Attend. Pediatricist, *ibid.*, 1924-29; Asst. Prof. Pediatrics, Syracuse Med. Sch.; Assoc. Attend. Pediatrician, Syracuse Univ. Hosp.

WILSON, RICHARD B.

B.S., Emory Univ., 1920; M.D., *ibid.*, 1922; H. O. Boston Psycho. Hosp., 1922-23; *Med. H. O., P. B. B. H., March 1, 1924-July 1, 1925*; Post-Grad. work at Inst. for Brain Anatomy, Amsterdam, Holland, 1925-26; Post-Grad. work in Neuro-Pathol., Hamburg, Fredrichsburg, Germany, 1926-27; Post-grad. work, National Hosp., London, 1928; Res., Neurol. Serv., Bellevue Hosp., N. Y., 1929; Assoc. in Neurol. and Psychiatry, Emory Univ., Atlanta, Georgia.

WISLOCKI, GEORGE BERNAYS

A.B., Washington Univ., 1912; M.D., Johns Hopkins, 1916; Asst. in Anat., *ibid.*, 1916-17; Arthur Tracy Cabot Fellow, Harvard, 1916-17; and 1919-20; *Assoc. in Surg., P. B. B. H., March 25-Oct. 1, 1920*; Assoc. in Anat., Johns Hopkins; Assoc. Prof. of Anat., *ibid.*, 1923-31; Parkman Prof. Anat., Harv.

PETER BENT BRIGHAM HOSPITAL

WOOD, R. HUGH

M.D., Med. Coll. of Va., 1921; Interne, St. Elizabeth's Hosp., Richmond, Va., 1922; Res. Pathol., Mem. Hosp., Richmond, Va., 1922-23; *Med. H. O., P. B. B. H., March 1, 1923-July 1, 1924*; Chief Res., Grady Hosp., Atlanta, Ga., 1924-26; in practice, Atlanta, Georgia.

WOOD, RUSSELL

A.B., Harv., 1916; M.D., *ibid.*, 1920; *Med. H. O., P. B. B. H., March 1, 1921-July 1, 1922*; Grad. Asst. in Med., M. G. H., 1922; H. O., So. Dept., B. C. H., 1922-23; Visit. Phys., St. Luke's Hosp., New Bedford, Mass.; Visit. Phys., *ibid.*; in practice, New Bedford, Mass.

WOODS, ALAN CHURCHILL

A.B., Johns Hopkins, 1910; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., July 1, 1914-Nov. 1, 1915*; Fellow and Assoc. in Exper. Med. and Asst. in Ophthal., Univ. of Pa.; Major, M. C., U. S. Army, 1917-19; Assoc. Prof. Ophthal., Johns Hopkins; Visit. Ophthal., *ibid.*; in practice (Ophthalmology), Baltimore, Maryland.

WOODWARD, HARRY WHITING

A.B., Bowdoin, 1910; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., March 1, 1915-July 1, 1916*; H. O., Boston Lying-In Hosp., 1916; Capt., Royal Army Med. Corps; Visit. Staff, Surg. Services, Glocker Hosp. and Sanatorium, Bethel Hosp., Colorado Springs, Colorado; Surg. Consult., Modern Woodmen of America San., Colorado Springs; Surg. Consult., Colo. Coll. Athletic Assoc.; in practice, Colorado Springs.

WOOLSTON, STEPHEN S.

B.S., Princeton, 1924; M.D., Univ. of Pa., 1929; Interne, Pennsylvania Hosp., 1929; Interne, Protestant Episcopal Hosp., Philadelphia, 1929-31; *Asst. Res. Surg., P. B. B. H., Jan. 15, 1932-May 1, 1932*.

WRIGHT, LESLIE H.

M.D., Univ. of Vt., 1918; H. O., Naval Hosp., Chelsea, 1918-19; Transport Serv., May 1, 1919-Sept. 1, 1919; Asst. Phys., Conn. State Hosp., Sept., 1919-July, 1920; Private Practice, July, 1920-May, 1922; Pathol., Monson State Hosp., May, 1922-Dec., 1924; Asst. in Hosp. Adm., Harv. Sch. Public Health, 1927-28; *Second Asst. Supt., P. B. B. H., Dec. 1, 1924-Dec. 1, 1927*; *First Asst. Supt., ibid., Dec. 1, 1927-July 1, 1930*; Supt., Genesee Hosp., Rochester, New York.

WRIGHT, MARY

A.B., Vassar, 1911; M.D., Johns Hopkins, 1917; *Med. H. O., P. B. B. H., July 1, 1917-Sept. 17, 1918*; H. O. (Pediatrics), M. G. H., 1918-19; H. O., St. Louis Children's Hosp., 1919; Asst. Res., St. Louis Children's Hosp., 1919-20; Phys. to Children's Med. O. P. D.,

REGISTER OF FORMER MEMBERS OF THE STAFF

M. G. H.; Attend. Phys., N. E. Hosp. for Women and Children; in practice, Boston. *Died, Jan. 13, 1927.*

WULFFAERT, FRANZ RENE

B.A., Brussels, 1906; B.S., *ibid.*, 1907; M.D., *ibid.*, 1912; Asst. Phys., St. John's Hosp., Brussels, 1913; Res. Anesthetist, St. Mary's Hosp., London, Eng., 1915; *Pathol. H. O., P. B. B. H., Jan. 15-July 1, 1918; Res. Pathol., ibid., July 1, 1918-March 31, 1919;* Asst. in Pathol., Harv., 1918-19; Asst. Surg. (Gynecology), St. John's Hosp., Brussels, 1919-23; Asst. Surg., Univ. Brussels, 1923-25; in practice, Brussels, Belgium.

WYATT, TYREE C.

A.B., Wake-Forest Coll., 1920; M.D., Syracuse Univ., 1922; Dept. of Pathol., *ibid.*, 1922-27; *Med. H. O., P. B. B. H., 1927-28;* H. O., N. Y. Nursery and Child's Hosp., 1929; Attend. Pathol., *ibid.*; Instr. in Pediatrics, Cornell Univ. School of Med.; Asst. Pediatrician, N. Y. Nursery and Child's Hosp.; Asst. Pediatrician, Syracuse Mem. Hosp.; Asst. Prof. Pediatrics, Syracuse Univ.

WYNN, JAMES

B.S., Indiana Univ., 1917; M.D., *ibid.*, 1919; M.D., *cum laude, ibid.*, 1920; *Asst. Res. Phys., P. B. B. H., July 1, 1920-Oct. 4, 1921;* Alternate on Visit. Staff, Indianapolis City Hosp., Indianapolis; Research Fellow, Indiana Univ. Med. Sch. *Died at Colorado Springs, Colo., Dec. 4, 1931.*

YOAKAM, WAYNE ADDISON

B.S., Denison Univ., 1916; M.D., Harv., 1920; *Surg. H. O., P. B. B. H., July 1, 1920-Nov. 1, 1921;* Obst. H. O. Boston Lying-In Hosp., 1921-22; Henry Ford Hosp., 1922-25; Assoc. Attend. Obstetrician, Providence Hosp. and Herman Keifer Hosp.; in practice, Detroit, Michigan.

YOUNG, RICHARD HART

B.S., Univ. of Chicago, 1926; M.A., Univ. of Nebraska, 1930; M.D., *ibid.*, 1930; *Med. H. O., P. B. B. H., July 1, 1930-Nov. 1, 1931;* Neurol. H. O., Bellevue Hosp., N. Y., Jan.-Oct., 1932; Henry Phipps Psychiatric Clin., Johns Hopkins Hosp., 1932-33; in practice, Omaha, Nebraska.

YOUNGE, PAUL A.

A.B., Univ. of Wis., 1927; M.D., Harv., 1931; *Surg. H. O., P. B. B. H., 1931-32;* Resident, Free Hosp. for Women, Brookline, Massachusetts.

Former Voluntary Graduate Assistants

ARMITAGE, GEORGE

M.B., Ch.B., Leeds, 1921; Surg. Tutor, Univ. of Leeds; Rockefeller Foundation Fellow, 1929-30; *P. B. B. H., Surg., Nov. 1929-Nov. 1930*; Leeds, England.

ASHER, ARTHUR GRAHAM

M.D., Rush Medical College, Chicago; *P. B. B. H., Med., Oct., 1930-Oct., 1931*; Kansas City, Mo.

AYMAN, DAVID

M.D., Harv., 1926; Research Fellow in Med., Harv., 1933-34; *P. B. B. H., Med., 1933-34*.

BAGDASAR, DIMITRI

M.D., Bucharest, 1922; Physician-in-chief, Hospital of Nervous Diseases, Jimbolia; *P. B. B. H., Surg., Oct. 1927-Oct. 1928*; Jimbolia, Roumania.

BARTRAM, EDWARD ALEXANDER

M.D., Univ. of Western Ontario, London, Canada, 1928; *P. B. B. H., Med., Oct., 1931-Aug., 1932*.

BELL, DONALD C.

M.D., Columbia, 1914; *P. B. B. H., Med., 1923-24*; Asst. Clin. Prof. Cleveland, Ohio.

BREMER, FREDERIC

M.D., Univ. of Brussels; C.R.B., Foundation Fellow, 1920; *P. B. B. H., Surg., Oct., 1920-April, 1921*.

BRILL, I. C.

M.D., Columbia, 1914; *P. B. B. H., Med., 1923-24*; Asst. Clin. Prof. Med., Univ. of Oregon.

BRUGSCH, HEINRICH

M.D., Berlin, 1927; Fellow of Akademische and Austausch-dients; *P. B. B. H., Med. 1929-30*.

BRYAN, A. HUGHES

M.D., Harv., 1931; Research Fellow in Med., Harv., 1933-34; *P. B. B. H., Med., 1933-34*.

COURVILLE, CYRIL B.

M.D., College Med. Evangelists, 1925; Interne, Los Angeles Gen. Hosp.; *P. B. B. H., Surg., Aug., 1927-Jan., 1928*; Loma Linda, California.

FORMER VOLUNTARY GRADUATE ASSISTANTS

DECAMPS, NESTOR

M.D., Brussels, 1925; Fellow of Commission for Relief of Belgium Education Foundation; *P. B. B. H., Med.*, 1926-27.

DECOPPET, GASTON

M.D., Univ. of Berne, 1924; Chef de clinique, Prof. de Quervain's service, Berne; Rockefeller Foundation Fellow, 1929-30; *P. B. B. H., Surg., Sept.*, 1929-Aug., 1930; Inselspital, Berne, Switzerland.

DEERY, EDWIN M.

M.D., Harv., 1926; *P. B. B. H., Surg., Nov.*, 1928-Sept., 1929; College of Physicians and Surgeons, New York.

FANG, I-CHI

M.D., Peking Union Medical College, 1922; *P. B. B. H., Administration*, 1931.

FINCHER, JR., EDGAR F.

M.D., Emory, 1925; Interne, Piedmont Hosp., 1925-26; *P. B. B. H., Surg., June-Sept.*, 1926; Atlanta, Georgia.

FRIED, BORIS M.

M.D., Imperial Nicholas Univ., Saratov, 1914; *P. B. B. H., Surg.*

GAIRDNER, ALAN C.

B.Ch., Oxon, 1926; F.R.C.S., Eng., 1928; *P. B. B. H., Surg., Nov.*, 1928-Jan., 1929; London Hosp., London, England.

GRANT, FRANCIS C.

M.D., Univ. of Penn., 1919; *P. B. B. H., Surg., Oct.*, 1925-May, 1926; Philadelphia, Pennsylvania.

GROFF, RICHARD ARMAND

M.D., Univ. of Pennsylvania, 1928; *P. B. B. H., Surg.*, 1931.

HALPENNY, ATTRACTA

L.R.C.S., Royal Coll. Phys. and Surg., Dublin; Purefoy Mem. Scholar, Coll. of Surgs., Dublin; *P. B. B. H., Surg., Sept.-Dec.*, 1929; Dublin, Ireland.

HOLLAND, CLYDE

M.S., C.M., Dalhousie, 1923; Fellow of Rockefeller Foundation; *P. B. B. H., Med.*, 1929-30.

ISAACS, RAPHAEL

M.D., Cincinnati, 1918; *P. B. B. H., Med.*, 1922-23; Asst. Prof. of Medicine, Univ. of Michigan.

KAPLAN, ABRAHAM

M.D., Harvard, 1927; *P. B. B. H., Surg.*, 1931.

KINDALL, LLOYD E.

M.D., Univ. of Colorado, 1913; *P. B. B. H., Urol., Jan.-June*, 1926; Oakland, California.

PETER BENT BRIGHAM HOSPITAL

KOTTKE, ELMER E.

M.D., Northwestern Univ., Chicago; *P. B. B. H., Med.*, Oct., 1930-May, 1931; Des Moines, Iowa.

KREDEL, FREDERICK E.

M.D., Johns Hopkins, 1929; *P. B. B. H., Surg.*, June 15-Sept. 15, 1927; and June 15-Sept. 15, 1928.

KUBIE, LAWRENCE S.

M.D., Johns Hopkins, 1921; *P. B. B. H., Surg.*, Sept.-Oct., 1927; New York City.

LAWS, CLARENCE L.

M.D., Emory, 1930; Assistant Resident Physician, Vanderbilt University Hosp., Nashville, Tenn., 1931-32; *P. B. B. H., Med.*, Aug., 1932-May, 1933.

LEE, FERDINAND C.

M.D., Johns Hopkins, 1919; Surg. Interne, Sept., 1919-Sept., 1920; *P. B. B. H., Surg.*, June-Sept., 1923; Baltimore, Maryland.

LEHMAN, WALTER

Prof. Surg., Chirurgische Univ. Clin., Göttingen, Germany; *P. B. B. H., Surg.*, Jan.-April, 1926.

LIST, CARL FELIX

M.D., Berlin, Germany, 1926; *P. B. B. H., Surg.*, 1931; Berlin, Germany.

LYNCH, RALPH

M.D., Pennsylvania, 1923; *P. B. B. H., Med.*, 1927-28; Pittsburgh, Pennsylvania.

MATTON, MARCEL

M.D., Ghent, 1929; Fellow of Commission for Relief of Belgium Education Foundation; *P. B. B. H., Med.*, 1924-25.

MEACHEN, JOHN W.

M.D., Harv., 1922; *P. B. B. H., Roentgenology*, 1924; Roentgenologist, Huntington Memorial and Palmer Memorial Hospitals.

MENTZER, JOHN H.

M.D., Univ. of Pa., 1930; *P. B. B. H., Med.*, 1932-33; Philadelphia, Pennsylvania.

MORELLE, JEAN

M.D., Louvain Univ., 1924; Asst. in Surg., Louvain; C.R.B. Educational Foundation Fellowship, 1925-26; *P. B. B. H., Surg.*, Oct., 1925-June, 1926; Louvain, Belgium.

MUANGAM, P.

P. B. B. H., Roentgenology, 1927. Sent by Government of Siam for study.

FORMER VOLUNTARY GRADUATE ASSISTANTS

ODY, FRANCOIS

M.D., Univ. of Geneva, 1922; Chef du second service de chirurgie (au concours) de l'Hopital Cantonal de Geneve; Rockefeller Foundation Fellow, 1930-31; *P. B. B. H., Surg.*, 1930-31.

OLJENICK, IGNATIUS

Med. Docts. Arts, Univ. of Amsterdam, 1911; Rockefeller Foundation Fellow, 1927-29; *P. B. B. H., Surg., Mar.*, 1927-Mar., 1929; Wilhelmina Gasthuis, Amsterdam.

PATTISON, ALFRED RICHARD DENIS

M.B., B.S., Durham, England, 1929; Surg. Registrar, Resident Medical Officer, Royal Victoria Infirmary, Newcastle upon Tyne, England; *P. B. B. H., Surg., March-Sept.*, 1932.

PETIT-DUTAILLIS, DANIEL

Interne and Chef de clinique, Hospitaux de Paris; *P. B. B. H., Surg.*, April 24-June 7, 1930.

REYNOLDS, LLOYD R.

M.D., Stanford, 1919; Surg. Res., Stanford Hosp., 2 yrs.; *P. B. B. H., Surg.*, Oct., 1923-Jan., 1924.

RIVES, JOHANNES

Rockefeller Foundation Fellow, Esthonia; *P. B. B. H., Surg.*, 1931.

ROSENBLUM, HAROLD HEBER

M.D., Univ. of California Med. School; *P. B. B. H., Med.*, Oct., 1931-July, 1932.

SCHALTENBRAND, GEORG

M.D., Univ. of Munich, 1923; Rockefeller Foundation Fellow, 1925-27; *P. B. B. H., Surg.*, Jan., 1926-March, 1927.

SCHLESINGER, BENNO

Univ. of Vienna, Austria; *P. B. B. H., Surg.*, 1931.

SCHONBAUER, LEOPOLD

M.D., Univ. of Prague, 1914; Assoc. with Prof. Eiselberg, Vienna, 5 years; *P. B. B. H., Surg.*, Nov., 1924-Jan., 1925.

SCRIVER, WALTER DE M.

M.D., McGill, 1921; Fellow of National Research Council; *P. B. B. H., Med.*, 1925-26.

SEPPANEN, ANNI DAGMAR

Dr. of Med. and Surg., Helsinki Univ., 1931; *P. B. B. H., Med.*, 1932-33.

SHANKS, MAJOR

P. B. B. H., Pathology, 1927; Indian Medical Service.

STAMMERS, F. A. R.

M.B., Ch.B., Univ. of Birmingham, 1923; M.R.C.S., L.R.C.P., England, 1925; Rockefeller Foundation Fellow, 1928-29; *P. B. B. H.*,

PETER BENT BRIGHAM HOSPITAL

Surg., Oct.-Nov., 1929; Asst. Surgeon, Birmingham General Hospital, Birmingham, England.

STARR, M. P.

M.D., Rush, 1922; *P. B. B. H., Med., 1923-24; Asst. Prof. of Med., Northwestern Univ.*

VAN DESSEL, ARTHUR

M.D., Univ. of Louvain, 1920; C.R.B., Educational Foundation Fellowship; *P. B. B. H., Surg., Feb., 1925-July, 1925.*

WÖRNER, EDWARD

M.D., Univ. of Munich, Germany; *P. B. B. H., Roentgenology, 1932; Munich, Germany.*

ZEITLIN, ALEXANDER

M.D., Univ. of Warsaw, 1917; Assoc. Surg., Surgical Clin., North Caucasian Univ., Rostov; *P. B. B. H., Surg., Dec., 1930-Jan., 1931.*

ZUBIRAN, SALVADOR

M.D., Univ. of Mexico, 1923; *P. B. B. H., Med., 1923-24; Prof. Public Health, Univ. of Mexico.*

Register of Former Members of the Corporation

Elected

May	8, 1902	ALEXANDER COCHRANE	Died April 10, 1919
May	8, 1902	EBEN DRAPER	Died April 9, 1914
May	8, 1902	HENRY S. HOWE	Died March 2, 1931
May	8, 1902	WALTER HUNNEWELL	Died September 30, 1921
May	8, 1902	WILLIAM R. TRASK	Died February 1, 1933
May	8, 1902	LAURENCE H. H. JOHNSON	Died June 24, 1934
Oct.	2, 1902	AUGUSTUS HEMENWAY	Resigned September 12, 1919

Appointed

June	16, 1909	*JOHN P. REYNOLDS	Died December 9, 1920
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Elected

Feb.	7, 1918	FRANCIS L. HIGGINSON	Resigned July 8, 1932
Feb.	7, 1918	CHARLES F. CHOATE, JR.	Resigned March 13, 1924
Dec.	11, 1919	LOUIS A. FROTHINGHAM	Died August 23, 1928
Feb.	12, 1920	WILLIAM H. WELLINGTON	Died February 2, 1925

* *Appointed by the Governor of Massachusetts.*

Officers of the Institution, 1934

President

CHARLES P. CURTIS

Treasurer

EDMUND D. CODMAN

Secretary pro tem

EDMUND D. CODMAN

MEMBERS OF THE CORPORATION

Appointed

Jan. 5, 1921	*WILLIAM AMORY	..... 179 Commonwealth Ave.	Boston
Mar. 26, 1925	HARRY L. BAILEY	..... 93 Franklin St.	Boston
May 8, 1902	EDMUND D. CODMAN	..... 27 Kilby St.	Boston
May 14, 1931	CHARLES A. COOLIDGE, JR.	50 Federal St.	Boston
Apr. 15, 1915	CHARLES P. CURTIS	..... 71 Ames Building	Boston
Mar. 25, 1931	RICHARD C. CURTIS	..... 30 State St.	Boston
Mar. 26, 1925	PAUL E. FITZPATRICK	.... 104 Kingston St.	Boston
June 16, 1909	†IRVIN McD. GARFIELD	.... 30 State St.	Boston
Apr. 13, 1933	THEODORE LYMAN	..... 105 Heath St.	Chestnut Hill
Mar. 27, 1924	RICHARD S. RUSSELL	..... 50 State St.	Boston

STANDING COMMITTEES OF THE CORPORATION

Building Committee

WILLIAM AMORY, *Chairman*

CHARLES P. CURTIS

IRVIN McD. GARFIELD

CHARLES A. COOLIDGE, JR.

JOSEPH B. HOWLAND, M.D., *Secretary*

Auditing Committee

THEODORE LYMAN

* Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires May 1, 1936.

† Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires May 11, 1939.

OFFICERS OF THE INSTITUTION

Committee on Finances

WILLIAM AMORY
EDMUND D. CODMAN
RICHARD C. CURTIS
CHARLES A. COOLIDGE, JR.
RICHARD S. RUSSELL

Committee on Heat, Light, and Power

WILLIAM AMORY
EDMUND D. CODMAN
CHARLES P. CURTIS

Committee on Nominations

CHARLES P. CURTIS
EDMUND D. CODMAN

Committee on Rules

CHARLES P. CURTIS
EDMUND D. CODMAN
IRVIN MCD. GARFIELD

VISITING COMMITTEE FOR 1933

CHARLES P. CURTIS	January
PAUL E. FITZPATRICK	February
RICHARD C. CURTIS	March
RICHARD S. RUSSELL.....	April
LAURENCE H. H. JOHNSON	May
CHARLES P. CURTIS.....	June
EDMUND D. CODMAN	July
CHARLES A. COOLIDGE, JR.	August
IRVIN MCD. GARFIELD	September
HARRY L. BAILEY	October
WILLIAM AMORY	November
CHARLES P. CURTIS.....	December

VISITING COMMITTEE FOR 1934

THEODORE LYMAN	January
PAUL E. FITZPATRICK.....	February
RICHARD C. CURTIS.....	March
RICHARD S. RUSSELL.....	April
LAURENCE H. H. JOHNSON....	May
CHARLES P. CURTIS.....	June
EDMUND D. CODMAN.....	July
CHARLES A. COOLIDGE, JR.....	August
IRVIN MCD. GARFIELD.....	September
HARRY L. BAILEY.....	October
WILLIAM AMORY	November
CHARLES P. CURTIS	December

PETER BENT BRIGHAM HOSPITAL

VISITING COMMITTEE FOR 1935

THEODORE LYMAN	January
PAUL E. FITZPATRICK	February
RICHARD C. CURTIS	March
RICHARD S. RUSSELL	April
.....	May
CHARLES P. CURTIS	June
EDMUND D. CODMAN	July
CHARLES A. COOLIDGE, JR.	August
IRVIN MCD. GARFIELD	September
HARRY L. BAILEY	October
WILLIAM AMORY	November
CHARLES P. CURTIS	December

EXECUTIVE COMMITTEE OF THE STAFF

HENRY A. CHRISTIAN, M.D.
S. BURT WOLBACH, M.D.
ELLIOTT C. CUTLER, M.D.
JOSEPH B. HOWLAND, M.D., *Secretary*

ADMINISTRATIVE DEPARTMENT

Superintendent

Service began

May 1, 1919 JOSEPH B. HOWLAND, M.D.

Assistant Superintendents

Mar. 5, 1934 NORBERT A. WILHELM, M.D.
Mar. 5, 1934 WILSON WARNER KNOWLTON, M.D.

Executive Assistant

May 14, 1927 HELEN GOODWIN, R.N.

BOARD OF CONSULTATION

Appointed

Mar. 25, 1912 WALTER B. CANNON, M.D., *Consulting Physiologist*
Mar. 25, 1912 OTTO FOLIN, Ph.D., *Consulting Chemist*
Mar. 8, 1928 GEORGE R. MINOT, *Consulting Physician*
Apr. 12, 1923 HANS ZINSSER, M.D., *Consulting Bacteriologist*
Oct. 13, 1932 FRANK R. OBER, M.D., *Consulting Orthopedic Surgeon*
Oct. 13, 1932 E. LAWRENCE OLIVER, M.D., *Consulting Dermatologist*
Jan. 1, 1933 CHANNING FROTHINGHAM, M.D., *Consulting Physician*
Jan. 1, 1933 LEROY M. S. MINER, D.M.D., *Consulting Dental Surgeon*
Mar. 8, 1934 J. HERBERT WAITE, M.D., *Consulting Ophthalmologist*

MEDICAL DEPARTMENT

Service began

May 1, 1912 HENRY A. CHRISTIAN, M.D., *Physician-in-Chief*
Sept. 1, 1922 REGINALD FITZ, M.D., *Physician*
July 1, 1928 CLIFFORD L. DERICK, M.D., *Physician*

OFFICERS OF THE INSTITUTION

July	1, 1915	JAMES P. O'HARE, M.D., <i>Senior Associate in Medicine</i>
Aug.	8, 1919	SAMUEL A. LEVINE, M.D., <i>Senior Associate in Medicine</i>
May	24, 1928	JOSEPH C. AUB, M.D., <i>Senior Associate in Medicine</i>
Dec.	12, 1912	NATHANIEL K. WOOD, M.D., <i>Associate in Medicine</i>
July	1, 1915	GEORGE P. DENNY, M.D., <i>Associate in Medicine</i>
Sept.	1, 1915	I. CHANDLER WALKER, M.D., <i>Associate in Medicine</i>
Sept.	12, 1919	DONALD J. MACPHERSON, M.D., <i>Associate in Medicine</i>
Nov.	12, 1925	GUSTAVE P. GRABFIELD, M.D., <i>Associate in Medicine</i>
May	10, 1926	WILLIAM P. MURPHY, M.D., <i>Associate in Medicine</i>
May	10, 1926	EDWARD S. EMERY, JR., M.D., <i>Associate in Medicine</i>
Sept.	1, 1931	RANDALL CLIFFORD, M.D., <i>Associate in Medicine</i>
Dec.	8, 1932	ROBERT T. MONROE, M.D., <i>Associate in Medicine</i>
Jan.	1, 1934	F. WILLIAM MARLOW, JR., M.D., <i>Associate in Medicine</i>
Jan.	1, 1934	HARRY H. BLOTNER, M.D., <i>Associate in Medicine</i>
Nov.	1, 1927	LYMAN H. HOYT, M.D., <i>Junior Associate in Medicine</i>
Dec.	22, 1930	JOHN M. FLYNN, M.D., <i>Junior Associate in Medicine</i>
Sept.	1, 1931	MARSHALL N. FULTON, M.D., <i>Junior Assoc. in Medicine</i>
Dec.	8, 1932	WILLIAM T. SALTER, M.D., <i>Junior Associate in Medicine</i>
Oct.	26, 1933	EARLE A. HARVEY, M.D., <i>Junior Associate in Medicine</i>
Sept.	1, 1933	EUGENE C. EPPINGER, M.D., <i>Resident Physician</i>
July	1, 1932	RICHARD D. FRIEDLANDER, M.D., <i>Assistant Resident Physician</i>
July	15, 1933	MAURICE A. SCHNITKER, M.D., <i>Assistant Resident Physician</i>
Aug.	1, 1933	PATRICK H. DREWRY, M.D., <i>Assistant Resident Physician</i>
Sept.	1, 1933	EDWARD W. CANNADY, M.D., <i>Assistant Resident Physician</i>
Mar.	1, 1934	PHILLIP T. KNIES, M.D., <i>Assistant Resident Physician</i>

SURGICAL DEPARTMENT

Service began

Sept.	1, 1932	ELLIOTT C. CUTLER, M.D., <i>Surgeon-in-Chief</i>
Oct.	13, 1932	HARVEY CUSHING, M.D., <i>Surgeon-in-Chief Emeritus</i>
May	1, 1912	JOHN HOMANS, M.D., <i>Surgeon</i>
Oct.	1, 1912	DAVID CHEEVER, M.D., <i>Surgeon</i>
June	19, 1916	WILLIAM C. QUINBY, M.D., <i>Urological Surgeon</i>
June	15, 1924	FRANCIS C. NEWTON, M.D., <i>Senior Associate in Surgery</i>
Mar.	8, 1934	TRYGVE GUNDERSON, M.D., <i>Associate in Ophthalmology</i>
Mar.	8, 1928	LOUISE EISENHARDT, M.D., <i>Junior Associate in Surgery</i>
Oct.	1, 1928	HARLAN F. NEWTON, M.D., <i>Junior Associate in Surgery</i>
Apr.	24, 1930	DONALD MACDONALD, M.D., <i>Junior Associate in Otolaryngology</i>
Sept.	1, 1932	WILLIAM V. COX, M.D., <i>Junior Associate in Surgery</i>
Sept.	1, 1933	PHILIP SHAMBAUGH, M.D., <i>Junior Associate in Surgery</i>
May	1, 1933	WILLIAM T. GREEN, M.D., <i>Junior Associate in Orthopedic Surgery</i>
Oct.	26, 1933	ALBERT H. BREWSTER, M.D., <i>Junior Associate in Orthopedic Surgery</i>
Sept.	1, 1932	JOHN C. ECKELS, M.D., <i>Junior Associate in Surgery</i>

PETER BENT BRIGHAM HOSPITAL

Sept.	1, 1932	ROBERT ZOLLINGER, M.D., <i>Resident Surgeon</i>
Aug.	15, 1933	RICHARD E. ALT, M.D., <i>Fellow in Urology</i>
Mar.	1, 1933	CHARLES D. BRANCH, M.D., <i>Assistant Resident Surgeon</i>
July	1, 1933	CORNELIUS B. WOOD, M.D., <i>Assistant Resident Surgeon</i>
Nov.	1, 1933	HAROLD F. ROBERTSON, M.D., <i>Assistant Resident Surgeon</i>
Mar.	1, 1934	MAX T. SCHNITKER, M.D., <i>Assistant Resident Surgeon</i>

PATHOLOGICAL DEPARTMENT

Service began

Dec.	1, 1916	S. BURT WOLBACH, M.D., <i>Pathologist</i>
Aug.	1, 1932	GEORGE M. HASS, M.D., <i>Resident Pathologist</i>

ROENTGENOLOGICAL DEPARTMENT

Service began

May	15, 1922	MERRILL C. SOSMAN, M.D., <i>Roentgenologist</i>
Jan.	12, 1928	EDWARD C. VOGT, M.D., <i>Associate in Roentgenology</i>
Sept.	8, 1933	HUGH F. HARE, <i>Associate in Roentgenology</i>
July	1, 1933	CARTER C. HAMILTON, M.D., <i>Assistant Resident in Roentgenology</i>

DENTAL SURGEON

Service began

Oct.	7, 1929	MOSES S. STROCK, D.M.D.
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MEDICAL HOUSE OFFICERS

Service began

Nov.	1, 1931	ROBERTO F. ESCAMILLA, M.D.	Mar.	1, 1933
Nov.	1, 1931	MILTON H. CLIFFORD, M.D.	Mar.	1, 1933
Nov.	1, 1931	ROBERT E. GLENDY, M.D.	Mar.	1, 1933
Mar.	1, 1932	MAURICE A. SCHNITKER, M.D.	July	1, 1933
Mar.	1, 1932	CHARLES F. WALCOTT, M.D.	July	1, 1933
Mar.	1, 1932	CHRISTIAN F. MIDELFART, M.D.	July	1, 1933
July	1, 1932	EUGENE A. STEAD, JR., M.D.....	Nov.	1, 1933
July	1, 1932	JOHN G. GIBSON, M.D.....	Nov.	1, 1933
July	1, 1932	WILLIAM R. HALLARAN, M.D.....	Nov.	1, 1933

Service will end

Nov.	1, 1932	GEORGE L. WELLER, JR., M.D.....	Mar.	1, 1934
Nov.	1, 1932	ARTHUR B. RICHTER, M.D.....	Mar.	1, 1934
Nov.	1, 1932	PAUL H. NOTH, M.D.....	Mar.	1, 1934
Mar.	1, 1933	HAROLD D. LEVINE, M.D.....	July	1, 1934
Mar.	1, 1933	DANIEL W. MYERS, M.D.....	July	1, 1934
Mar.	1, 1933	MYRON J. TREMAINE, M.D.....	July	1, 1934
July	1, 1933	CLAYTON B. ETHRIDGE, M.D.....	Nov.	1, 1934
July	1, 1933	HOWARD C. JACKSON, M.D.....	Nov.	1, 1934
July	1, 1933	HAROLD S. SCHIRO, M.D.....	Nov.	1, 1934
Nov.	1, 1933	EDWARD A. DELARUE, JR., M.D.....	Mar.	1, 1935
Nov.	1, 1933	HARALD N. JOHNSON, M.D.....	Mar.	1, 1935
Nov.	1, 1933	GEORGE W. LYNCH, M.D.....	Mar.	1, 1935
Mar.	1, 1934	ARCHIBALD W. DIACK, JR., M.D.....	July	1, 1935
Mar.	1, 1934	THEODORE H. INGALLS, M.D.....	July	1, 1935
Mar.	1, 1934	WILLIAM N. MYHRE, M.D.....	July	1, 1935

OFFICERS OF THE INSTITUTION

SURGICAL HOUSE OFFICERS

<i>Service began</i>			<i>Service ended</i>	
Oct.	1, 1931	JEAN J. DUMORTIER, M.D.	Feb.	1, 1933
Oct.	1, 1931	DAVID W. GAISER, M.D.	Feb.	1, 1933
Jan.	1, 1932	FREDERICK H. SHILLITO, M.D.	May	1, 1933
Jan.	1, 1932	DARWIN E. BENNETT, M.D.	May	1, 1933
Apr.	1, 1932	PHILIP SHAMBAUGH, M.D.	Aug.	1, 1933
Apr.	1, 1932	EDWARD M. DRISSEN, M.D.	Aug.	1, 1933
July	1, 1932	PETER A. H. MIDELFART, M.D.....	Nov.	1, 1933
July	1, 1932	ROBERT L. PATTERSON, JR., M.D.....	Nov.	1, 1933

			<i>Service will end</i>	
Oct.	1, 1932	SAMUEL M. DUPERTUIS, M.D.....	Feb.	1, 1934
Oct.	1, 1932	GEORGE F. WILKINS, M.D.....	Feb.	1, 1934
Mar.	1, 1933	STORER P. HUMPHREYS, M.D.....	July	1, 1934
Mar.	1, 1933	CARL W. WALTER, M.D.....	July	1, 1934
July	1, 1933	WALTER A. REILING, M.D.....	Nov.	1, 1934
Sept.	1, 1933	JOHN E. DUNPHY, M.D.....	Nov.	1, 1934
Nov.	1, 1933	JOHN H. HARRISON, M.D.....	Mar.	1, 1935
Nov.	1, 1933	HALL SEELY, M.D.....	Mar.	1, 1935
Mar.	1, 1934	PRENTISS L. HYDER, M.D.....	July	1, 1935
Mar.	1, 1934	THOMAS B. QUIGLEY, M.D.....	July	1, 1935

PATHOLOGICAL HOUSE OFFICERS

July	1, 1933	ROBERT E. GROSS, M.D.
Sept.	23, 1933	ORVILLE T. BAILEY, M.D.

HOUSE OFFICER IN ROENTGENOLOGICAL DEPARTMENT

July	1, 1933	WILLIAM W. BRYAN, JR., M.D.
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DENTAL HOUSE OFFICER

July	1, 1933	GEORGE A. SULLIVAN, D.M.D.
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SCHOOL OF NURSING

Advisory Committee

CHARLES P. CURTIS	HENRY A. CHRISTIAN, M.D.
WILLIAM AMORY	ELLIOTT C. CUTLER, M.D.
JOSEPH B. HOWLAND, M.D., <i>Supt.</i>	PRES. ADA COMSTOCK
CARRIE M. HALL, R.N., <i>Principal</i>	MRS. GEORGE C. SHATTUCK
MRS. COLLINS GRAHAM	

Superintendent of Nurses and Principal of the School of Nursing

July	1, 1912	CARRIE M. HALL, R.N.
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Assistant Superintendent of Nurses

June	1, 1928	MARY C. GILMORE, R.N.
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PETER BENT BRIGHAM HOSPITAL

Instructor in Theory

Service began

Sept. 1, 1931 MARTHA O. SAYLES, B.S., R.N.

Instructor in Practice

Sept. 1, 1929 BERNICE J. SINCLAIR, R.N.

Instructor in Operating Room Technique

Nov. 21, 1932 RUTH ADAMS, R.N.

Supervisors

June 1, 1929 HELEN A. NEWHALL, A.B., R.N.

Sept. 6, 1932 FRANCES M. DAGGETT, R.N.

Oct. 13, 1927 RACHEL T. ADAMS, R.N.

Nov. 20, 1932 CATHERINE RICHARDS, R.N.

Night Supervisors

July 1, 1931 MARY F. LOUGHILIN, R.N.

Nov. 6, 1933 DORA M. MCGRAW, R.N.

Chief—Social Service Department

Aug. 17, 1914 ALICE M. CHIENEY, R.N.

Dietitian

Aug. 1, 1931 GERTRUDE McDONALD, B.S.

Apothecary

Dec. 2, 1912 HARRY H. COMAN

Clerk

Apr. 29, 1912 LIDA E. CRAWFORD

Record Librarians

House Records

June 16, 1922 EDITH M. ROBBINS

Out-Patient Records

Mar. 2, 1931 VINCENZA COLARUSSO

Housekeeper

Sept. 1, 1933 ANN M. LEWIS

Chief—Mechanical Departments

Oct. 21, 1911 JOHN A. AITKEN

FORM OF BEQUEST

I give and bequeath to the Peter Bent Brigham Hospital, a corporation established under the laws of the Commonwealth of Massachusetts, the sum of _____ dollars, the same to be used for the furtherance of its charitable work.

